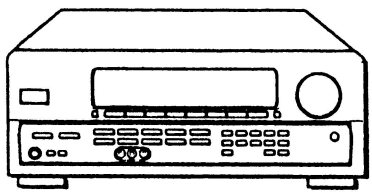
aiwa

aiwa SERVICE

AV-D30
AV-D50
AV-DV70

SERVICE MANUAL



STEREO AV RECEIVER

• TYPE : U

S/M Code No. 09-986-258-70I

SPECIFICATIONS [AV-D30]

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

AM tuner section

Tuning range 530 kHz to 1710 kHz (10 kHz step), 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity 350 µV/m
Antenna Loop antenna

Amplifier section

Power output
[Stereo Mode]
Front
85 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
[Dolby Pro Logic or 5.1 CH Mode]
Front
70 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
Rear (Surround)
35 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
Center
70 watts, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion

Total harmonic distortion 0.08 % (50 W, 1 kHz, 8 ohms, Front)

Inputs
AUDIO IN
PHONO: 2.5 mV, adjustable (47 kohms)
CD: 250 mV, adjustable (47 kohms)
TAPE MONITOR: 250 mV (47 kohms)
VIDEO 1/DVD/MD, VIDEO 2/LD/TV, VIDEO 3, AUX: 250 mV, adjustable (47 kohms)
5.1 INPUT (FRONT, SURROUND, CENTER, SUB-WOOFER): 400 mV (47 kohms)
VIDEO IN: 1 Vp-p (75 ohms)

Outputs
AUDIO OUT (REC OUT): 200 mV (1 kohm)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 200 mV
FRONT SPEAKERS IMP: 8Ω (front speakers A and B): accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8Ω (surround speakers): accepts speakers of 8 ohms or more
CENTER SPEAKER IMP: 8Ω: accepts a speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more

Muting –20 dB

General

Power requirements 120 V AC, 60 Hz
Power consumption 125 W
Dimensions (W × H × D) 430 × 155 × 351 mm (17 × 6⅛ × 13⅞ in.)
Weight 10.0 kg (22 lb 1 oz.)

- Design and specifications are subject to change without notice.
- Manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY", the double-D symbol ⧈ are "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

SPECIFICATIONS [AV-D50]

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

AM tuner section

Tuning range 530 kHz to 1710 kHz (10 kHz step), 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity 350 µV/m
Antenna Loop antenna

Amplifier section

Power output
[Stereo Mode]
Front
130 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
[Dolby Pro Logic or 5.1 CH Mode]
Front
120 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
Rear (Surround)
60 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
Center
120 watts, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion

Total harmonic distortion 0.08 % (85 W, 1 kHz, 8 ohms, Front)

Inputs
AUDIO IN
PHONO: 2.5 mV, adjustable (47 kohms)
CD: 250 mV, adjustable (47 kohms)
TAPE MONITOR: 250 mV (47 kohms)
VIDEO 1/DVD/MD, VIDEO 2/LD/TV, VIDEO 3, AUX: 250 mV, adjustable (47 kohms)
5.1 INPUT (FRONT, SURROUND, CENTER, SUB-WOOFER): 400 mV (47 kohms)
VIDEO IN: 1 Vp-p (75 ohms)

Outputs
AUDIO OUT (REC OUT): 200 mV (1 kohm)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 200 mV
FRONT SPEAKERS IMP: 8Ω/4Ω selectable (front speakers A and B):
with the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speakers of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8Ω (surround speakers): accepts speakers of 8 ohms or more
CENTER SPEAKER IMP: 8Ω/4Ω selectable
with the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speaker of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more

Muting –20 dB

General

Power requirements 120 V AC, 60 Hz
Power consumption 230 W
Dimensions (W × H × D) 430 × 155 × 351 mm (17 × 6 1/8 × 13 7/8 in.)
Weight 11.2 kg (24 lb 11 oz.)

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  Under license from BBE Sound, Inc.

SPECIFICATIONS [AV-DV70]

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

AM tuner section

Tuning range 530 kHz to 1710 kHz (10 kHz step), 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity 350 µV/m
Antenna Loop antenna

Amplifier section

Power output
[Stereo Mode]
Front
130 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
[Dolby Digital Surround or Dolby Pro Logic Mode]
Front
120 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
Rear (Surround)
60 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
Center
120 watts, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion

Total harmonic distortion 0.08 % (85 W, 1 kHz, 8 ohms, Front)

Inputs
AUDIO IN
PHONO: 2.5 mV, adjustable (47 kohms)
CD: 250 mV, adjustable (47 kohms)
TAPE MONITOR: 250 mV (47 kohms)
VIDEO 1/DVD/MD, VIDEO 2/LD/TV, VIDEO 3, AUX: 250 mV, adjustable (47 kohms)
DIGITAL IN
COAXIAL (VIDEO 2):
OPTICAL (VIDEO 1):
accept linear PCM (32 kHz, 44.1 kHz and 48 kHz) signals and bit stream of Dolby Digital Surround
VIDEO IN: 1 Vp-p (75 ohms)

Outputs
AUDIO OUT (REC OUT): 200 mV (1 kohm)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 1 V
FRONT SPEAKERS IMP: 8Ω/4Ω selectable (front speakers A and B):
with the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speakers of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8Ω (surround speakers): accepts speakers of 8 ohms or more
CENTER SPEAKER IMP: 8Ω/4Ω selectable
with the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speaker of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more

Muting –20 dB

General

Power requirements 120 V AC, 60 Hz
Power consumption 230 W
Dimensions (W × H × D) 430 × 155 × 351 mm (17 × 6 1/8 × 13 7/8 in.)
Weight 11.2 kg (24 lb 11 oz.)

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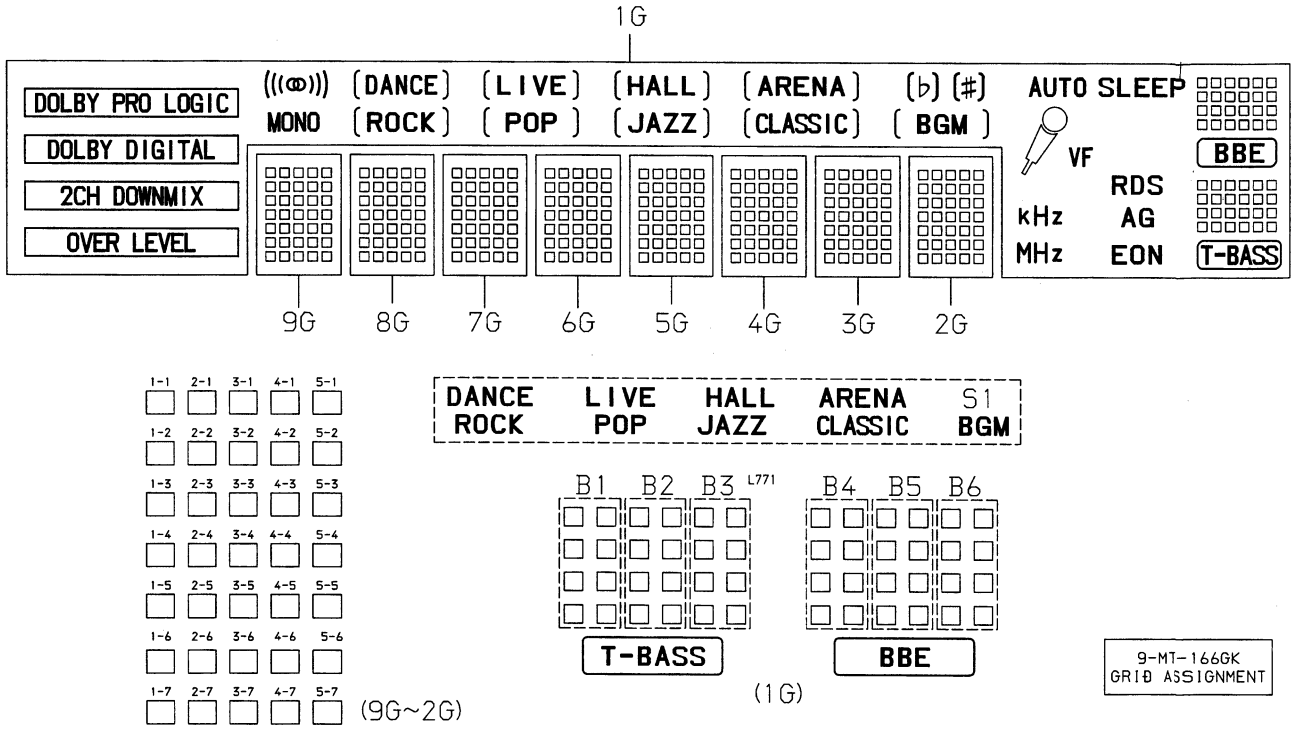
GRID ASSIGNMENT



ANODO CONNECTION

ANODE CONNECTION

	9G~2G	1G
P1	1-1	DOLBY PRO LOGIC
P2	2-1	DOLBY DIGITAL
P3	3-1	2CH DOWNMIX
P4	4-1	OVER LEVEL
P5	5-1	(((∞)))
P6	1-2	MONO
P7	2-2	(DANCE)
P8	3-2	(ROCK)
P9	4-2	(LIVE)
P10	5-2	(POP)
P11	1-3	(HALL)
P12	2-3	(JAZZ)
P13	3-3	(ARENA)
P14	4-3	(CLASSIC)
P15	5-3	(BGM)
P16	1-4	(♭)
P17	2-4	(#)
P18	3-4	♭ #

	9G~2G	1G
P19	4-4	S1
P20	5-4	AUTO
P21	1-5	VF
P22	2-5	kHz
P23	3-5	MHz
P24	4-5	SLEEP
P25	5-5	AG
P26	1-6	EON
P27	2-6	RDS
P28	3-6	BBE
P29	4-6	B6
P30	5-6	B5
P31	1-7	B4
P32	2-7	T-BASS
P33	3-7	B3
P34	4-7	B2
P35	5-7	B1

9-MT-166GK
ANODE CONNECTION

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-AR4-687-040		C-IC,LC74763M-9670<70>
	88-AR1-648-010		C-IC,UPD780228GF-017-3BA
	87-A20-823-010		C-IC,YSS248<70>
	87-070-391-040		IC,BA4558F
	87-A20-824-010		C-IC,CS4226<70>
	87-A20-154-010		IC,SPS-444-1
	87-001-536-010		IC,NJM78M05FA<70>
	87-017-022-080		IC,NJM2068M-D(T1)
	87-020-784-080		IC,TC4053BF
	87-A20-870-010		IC,GP1F37R<70>
	87-A20-560-040		C-IC,M65849BFP
	87-001-604-080		IC,TC74HCU04M<70>
	87-002-298-080		IC,TC74HC00AF<70>
	87-A20-715-010		IC,M62439SP
	87-017-726-080		IC,BU4052 BCF
	87-A20-954-040		C-IC,M62445FP-601
	87-A20-056-010		IC,BA3880S<50,70>
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837
	87-A20-453-010		C-IC,NJW1102B<30,50>
	87-A20-820-010		IC,BA7625
	87-017-917-080		IC,BU4066BCF
TRANSISTOR			
	87-A30-087-080		C-FET,2SK2158
	87-A30-071-080		C-TR,RT1N 144C
	89-110-372-080		TR,2SA1037KR(140MHZ 200MW)
	89-213-750-010		TR,2SB1375E(25W)
	87-026-263-080		C-TR,RN1410
	87-A30-083-080		TR,CSD1489B
	87-A30-075-080		C-TR,2SA1235F
	89-112-965-080		TR,2SA1296GR(0.75W)
	87-A30-076-080		C-TR,2SC3052F
	87-A30-074-080		C-TR,RT1P 141C
	87-026-610-080		TR,KTC3198GR
	87-A30-073-080		C-TR,RT1N 141C
	89-213-702-010		TR,2SB1370E(1.8W)
	87-A30-086-070		C-TR,CSD1306E
	87-A30-072-080		C-TR,RT1P 144C
	87-026-609-080		TR,KTA1266GR
	87-A30-107-070		C-TR,CMBT5401
	87-A30-190-080		TR,CC5551
	87-A30-097-010		TR,FN 1016
	87-A30-098-010		TR,FP 1016
	87-A30-106-070		C-TR,CMBT5551
	87-A30-162-010		FET,2SK2937
	87-026-236-080		C-TR,DTC124EK<70>
	87-026-232-080		TR,DTA144WK
	87-A30-131-080		TR,2SA965Y
	87-A30-196-080		TR,2SC4115SRS
	89-327-143-080		TR,2SC2714(O)(0.1W)
DIODE			
	87-A40-291-080		DIODE,1N4148M(CPT)
	87-A40-470-080		DIODE,1SS254
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-468-080		C-DIODE,HSM2836CTR
	87-070-136-080		ZENER,MTZJ5.1B
	87-027-686-080		ZENER,HZ-12A1<50,70>
	87-A40-235-080		ZENER,MTZJ9.1C<70>
	87-A40-002-080		ZENER,MTZJ5.1C
⚠	87-A40-115-060		DIODE,RS603M
	87-A40-469-080		C-DIODE,HSM2838CTR
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-335-080		ZENER,MTZJ11C T-72
	87-A40-344-080		ZENER,MTZJ6.2C
⚠	87-A40-224-010		DIODE,GBU8D
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-336-080		ZENER,MTZJ27D T-72
	87-A40-347-080		ZENER,MTZJ2.2B
	87-A40-274-010		DIODE,FMB-G16L
	87-A40-299-080		ZENER,DZ5.1M
	87-A40-488-080		DIODE,1SS244
	87-017-931-080		ZENER,MTZJ5.6B
	87-A40-500-080		ZENER,MTZJ30B
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-234-080		ZENER,MTZJ5.6A
MAIN C.B			
C101	87-010-235-080		CAP,E 470-16 SME
C102	87-010-235-080		CAP,E 470-16 SME
C103	87-010-384-080		CAP, ELECT 100-25V
C104	87-016-128-080		CAP, ELECT 22-25V KME
C105	87-010-247-080		CAP, ELECT 100-50V
C106	87-010-384-080		CAP, ELECT 100-25V
C107	87-010-263-080		CAP, ELECT 100-10V<50>
C108	87-012-140-080		CAP 470P
C109	87-012-368-080		C-CAP,S 0.1-50 F
C110	87-012-368-080		C-CAP,S 0.1-50 F
C111	87-012-368-080		C-CAP,S 0.1-50 F
C112	87-012-368-080		C-CAP,S 0.1-50 F
⚠C113	87-016-658-090		CAP,E 4700-35 SMG
⚠C114	87-016-658-090		CAP,E 4700-35 SMG
C115	87-012-368-080		C-CAP,S 0.1-50 F
C116	87-012-368-080		C-CAP,S 0.1-50 F
C117	87-012-368-080		C-CAP,S 0.1-50 F
C118	87-012-368-080		C-CAP,S 0.1-50 F
⚠C119	87-A10-462-090		CAP,E 6800-63 SMG VB<30>
⚠C119	87-A10-416-090		CAP,E 6800-80 SMG VB<50,70>
⚠C120	87-A10-462-090		CAP,E 6800-63 SMG VB<30>
⚠C120	87-A10-416-090		CAP,E 6800-80 SMG VB<50,70>
C121	87-010-260-080		CAP, ELECT 47-25V
C122	87-010-403-080		CAP, ELECT 3.3-50V
C123	87-010-384-080		CAP, ELECT 100-25V
C124	87-010-384-080		CAP, ELECT 100-25V
C125	87-A10-417-080		CAP,E 47-63 M SME
C126	87-010-263-080		CAP, ELECT 100-10V
C127	87-010-197-080		CAP, CHIP 0.01 DM
C149	87-010-154-080		CAP CHIP 10P
C150	87-010-154-080		CAP CHIP 10P
C153	87-010-401-080		CAP, ELECT 1-50V
C154	87-010-401-080		CAP, ELECT 1-50V
C155	87-010-196-080		CHIP CAPACITOR,0.1-25
C156	87-010-196-080		CHIP CAPACITOR,0.1-25
C157	87-010-408-080		CAP, ELECT 47-50V
C158	87-010-408-080		CAP, ELECT 47-50V
C159	87-010-154-080		CAP CHIP 10P
C168	87-A10-830-080		C-CAP,S 0.33-16 K<30,50>
C169	87-010-154-080		CAP CHIP 10P
C170	87-010-154-080		CAP CHIP 10P<70>
C170	87-012-393-080		C-CAP,S 0.22-16 RK<30,50>
C171	87-010-196-080		CHIP CAPACITOR,0.1-25
C172	87-010-154-080		CAP CHIP 10P
C173	87-010-401-080		CAP, ELECT 1-50V<30,50>
C173	87-010-405-080		CAP, ELECT 10-50V<70>
C174	87-010-401-080		CAP, ELECT 1-50V
C175	87-010-196-080		CHIP CAPACITOR,0.1-25
C203	87-010-179-080		CAP,CHIP S B1200P
C204	87-010-179-080		CAP,CHIP S B1200P
C205	87-010-406-080		CAP, ELECT 22-50
C206	87-010-406-080		CAP, ELECT 22-50
C209	87-010-406-080		CAP, ELECT 22-50
C210	87-010-406-080		CAP, ELECT 22-50
C211	87-012-140-080		CAP 470P

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C212	87-012-140-080		CAP 470P
C215	87-A10-897-080		CAP,E 100-25 BP SME
C216	87-A10-897-080		CAP,E 100-25 BP SME
C217	87-A10-516-080		C-CAP,S 100P-200 J CH
C218	87-A10-516-080		C-CAP,S 100P-200 J CH
C221	87-010-805-080		CAP, S 1-16
C222	87-010-805-080		CAP, S 1-16
C223	87-010-402-080		CAP, ELECT 2.2-50V
C224	87-010-402-080		CAP, ELECT 2.2-50V
C225	87-010-196-080		CHIP CAPACITOR,0.1-25
C226	87-010-384-080		CAP, ELECT 100-25V
C227	87-010-178-080		CHIP CAP 1000P
C228	87-010-178-080		CHIP CAP 1000P
C229	87-010-384-080		CAP, ELECT 100-25V
C285	87-010-186-080		CAP,CHIP 4700P
C287	87-010-190-080		S CHIP F 0.01
C288	87-010-190-080		S CHIP F 0.01
C289	87-010-190-080		S CHIP F 0.01
C290	87-010-190-080		S CHIP F 0.01
C291	87-012-368-080		C-CAP,S 0.1-50 F
C292	87-012-368-080		C-CAP,S 0.1-50 F
C293	87-012-368-080		C-CAP,S 0.1-50 F
C294	87-012-368-080		C-CAP,S 0.1-50 F
C295	87-012-368-080		C-CAP,S 0.1-50 F
C296	87-012-368-080		C-CAP,S 0.1-50 F
C297	87-012-368-080		C-CAP,S 0.1-50 F
C298	87-012-368-080		C-CAP,S 0.1-50 F
C303	87-010-181-080		CAP,CHIP S 1800P
C304	87-010-181-080		CAP,CHIP S 1800P
C305	87-010-406-080		CAP, ELECT 22-50
C306	87-010-406-080		CAP, ELECT 22-50
C309	87-010-406-080		CAP, ELECT 22-50
C310	87-010-406-080		CAP, ELECT 22-50
C311	87-012-140-080		CAP 470P
C312	87-012-140-080		CAP 470P
C315	87-A10-897-080		CAP,E 100-25 BP SME
C316	87-A10-897-080		CAP,E 100-25 BP SME
C317	87-A10-516-080		C-CAP,S 100P-200 J CH
C318	87-A10-516-080		C-CAP,S 100P-200 J CH
C321	87-010-805-080		CAP, S 1-16
C322	87-010-805-080		CAP, S 1-16
C323	87-010-402-080		CAP, ELECT 2.2-50V
C324	87-010-402-080		CAP, ELECT 2.2-50V
C325	87-010-196-080		CHIP CAPACITOR,0.1-25
C327	87-010-178-080		CHIP CAP 1000P
C328	87-010-178-080		CHIP CAP 1000P
C330	87-012-368-080		C-CAP,S 0.1-50 F
C331	87-012-368-080		C-CAP,S 0.1-50 F
C332	87-010-408-080		CAP, ELECT 47-50V
C333	87-010-408-080		CAP, ELECT 47-50V
C385	87-010-186-080		CAP,CHIP 4700P
C391	87-012-368-080		C-CAP,S 0.1-50 F
C392	87-012-368-080		C-CAP,S 0.1-50 F
C393	87-012-368-080		C-CAP,S 0.1-50 F
C394	87-012-368-080		C-CAP,S 0.1-50 F
C395	87-010-190-080		S CHIP F 0.01
C396	87-010-190-080		S CHIP F 0.01
C402	87-010-181-080		CAP,CHIP S 1800P
C403	87-010-406-080		CAP, ELECT 22-50
C405	87-010-406-080		CAP, ELECT 22-50<30,50>
C405	87-010-408-080		CAP, ELECT 47-50V<70>
C406	87-012-140-080		CAP,470P
C408	87-A10-897-080		CAP,E 100-25 BP SME
C409	87-A10-516-080		C-CAP,S 100P-200 J CH
C411	87-010-805-080		CAP, S 1-16
C412	87-010-402-080		CAP, ELECT 2.2-50V
C413	87-010-196-080		CHIP CAPACITOR,0.1-25
C414	87-010-178-080		CHIP CAP 1000P
C485	87-010-186-080		CAP,CHIP 4700P
C491	87-012-368-080		C-CAP,S 0.1-50 F
C492	87-012-368-080		C-CAP,S 0.1-50 F
C493	87-010-190-080		S CHIP F 0.01
C501	87-010-404-080		CAP, ELECT 4.7-50V
C502	87-010-404-080		CAP, ELECT 4.7-50V
C503	87-012-157-080		C-CAP,S 330P-50 CH
C504	87-012-157-080		C-CAP,S 330P-50 CH
C511	87-010-404-080		CAP, ELECT 4.7-50V
C512	87-010-404-080		CAP, ELECT 4.7-50V
C513	87-010-260-080		CAP, ELECT 47-25V
C514	87-010-260-080		CAP, ELECT 47-25V
C515	87-010-370-080		CAP,E 330-6.3 SME
C516	87-010-370-080		CAP,E 330-6.3 SME
C517	87-010-196-080		CHIP CAPACITOR,0.1-25
C518	87-010-196-080		CHIP CAPACITOR,0.1-25
C519	87-010-196-080		CHIP CAPACITOR,0.1-25
C531	87-010-213-080		C-CAP,S 0.015-50 B
C532	87-010-992-080		C-CAP,S 0.047-25 B
C533	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C535	87-010-404-080		CAP, ELECT 4.7-50V
C536	87-010-404-080		CAP, ELECT 4.7-50V
C539	87-010-401-080		CAP, ELECT 1-50V
C540	87-010-401-080		CAP, ELECT 1-50V
C541	87-010-185-080		C-CAP,S 3900P-50 B
C542	87-010-185-080		C-CAP,S 3900P-50 B
C547	87-010-404-080		CAP, ELECT 4.7-50V
C548	87-010-404-080		CAP, ELECT 4.7-50V
C549	87-016-081-080		C-CAP,S 0.1-16 RK
C550	87-016-081-080		C-CAP,S 0.1-16 RK
C554	87-010-196-080		CHIP CAPACITOR,0.1-25
C555	87-010-405-080		CAP, ELECT 10-50V
C556	87-010-221-080		CAP, ELECT 470-10V
C557	87-010-263-080		CAP, ELECT 100-10V
C559	87-010-183-080		C-CAP,S 2700P-50 B
C561	87-012-140-080		CAP 470P
C562	87-012-140-080		CAP 470P
C565	87-010-404-080		CAP, ELECT 4.7-50V
C566	87-010-404-080		CAP, ELECT 4.7-50V
C601	87-010-378-080		CAP, ELECT 10-16V<50,70>
C602	87-010-378-080		CAP, ELECT 10-16V<50,70>
C603	87-012-156-080		C-CAP,S 220P-50 CH<50,70>
C604	87-012-156-080		C-CAP,S 220P-50 CH<50,70>
C605	87-010-405-080		CAP, ELECT 10-50V
C606	87-010-405-080		CAP, ELECT 10-50V
C607	87-012-140-080		CAP 470P<50,70>
C608	87-012-140-080		CAP 470P<50,70>
C609	87-010-188-080		CAP,CHIP 6800P<50,70>
C610	87-010-188-080		CAP,CHIP 6800P<50,70>
C611	87-010-197-080		CAP, CHIP 0.01 DM<50,70>
C612	87-010-195-080		C-CAP,S 0.068-25 F<50,70>
C613	87-010-195-080		C-CAP,S 0.068-25 F<50,70>
C614	87-010-197-080		CAP, CHIP 0.01 DM<50,70>
C615	87-010-404-080		CAP, ELECT 4.7-50V<50,70>
C616	87-010-404-080		CAP, ELECT 4.7-50V<50,70>
C617	87-010-404-080		CAP, ELECT 4.7-50V<50,70>
C618	87-010-404-080		CAP, ELECT 4.7-50V<50,70>
C619	87-010-404-080		CAP, ELECT 4.7-50V<50,70>
C620	87-010-101-080		CAP, ELECT 220-16<50,70>
C621	87-010-260-080		CAP, ELECT 47-25V<50,70>
C701	87-010-196-080		CHIP CAPACITOR,0.1-25
C702	87-010-196-080		CHIP CAPACITOR,0.1-25
C720	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C721	87-010-401-080		CAP, ELECT 1-50V<30,50>
C722	87-010-260-080		CAP, ELECT 47-25V<30,50>
C723	87-010-401-080		CAP, ELECT 1-50V<30,50>
C724	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C725	87-010-401-080		CAP, ELECT 1-50V<30,50>
C726	87-010-401-080		CAP, ELECT 1-50V<30,50>
C745	87-012-368-080		C-CAP,S 0.1-50 F
C750	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C901	87-010-406-080		CAP, ELECT 22-50

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C902	87-010-406-080		CAP, ELECT 22-50
C903	87-010-406-080		CAP, ELECT 22-50
C904	87-010-406-080		CAP, ELECT 22-50
C905	87-010-406-080		CAP, ELECT 22-50
C906	87-010-260-080		CAP, ELECT 47-25V
C907	87-010-196-080		CHIP CAPACITOR,0.1-25
C908	87-010-384-080		CAP, ELECT 100-25V
C909	87-010-371-080		CAP, ELECT 470-6.3V
C910	87-010-371-080		CAP, ELECT 470-6.3V
C911	87-010-371-080		CAP, ELECT 470-6.3V
C912	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C913	87-010-196-080		CHIP CAPACITOR,0.1-25
C914	87-010-196-080		CHIP CAPACITOR,0.1-25
FFC101	88-AR1-642-010		F-CABLE,9P -2.5
FFC501	88-AR1-644-010		FF-CABLE,27P 1.25
FFC502	88-AR1-647-010		FF-CABLE,12P 1.25 340MM
FFC503	88-911-161-110		FF-CABLE,11P 1.25
J201	87-A60-199-010		TERMINAL,SP 8P CJ-9034-07 V0
J301	87-A60-200-110		TERMINAL,SP 6P CJ-9033
J501	87-099-609-010		JACK,PIN 4P KM EARTH
J502	87-099-609-010		JACK,PIN 4P KM EARTH
J715	87-A60-244-010		JACK,PIN 1P BLK
J750	87-A60-660-010		JACK,6P W/R,W/R,B/O(G)<30,50>
J901	87-099-911-010		JACK,PIN 3P YEL
J902	87-099-912-010		JACK,PIN 3P YEL W/E
J903	87-099-911-010		JACK,PIN 3P YEL
J904	87-099-911-010		JACK,PIN 3P YEL
J905	87-099-911-010		JACK,PIN 3P YEL
L291	87-003-383-010		COIL,1UH-S
L292	87-003-383-010		COIL,1UH-S
L293	87-003-383-010		COIL,1UH-S
L294	87-003-383-010		COIL,1UH-S
L391	87-003-383-010		COIL,1UH-S
L392	87-003-383-010		COIL,1UH-S
L491	87-003-383-010		COIL,1UH-S
L901	87-003-152-080		COIL, 100UH
⚠ PR101	87-026-691-080		FUSE,10A 125V 251
⚠ PR104	87-026-691-080		FUSE,10A 125V 251
⚠ PR107	87-026-691-080		FUSE,10A 125V 251
⚠ PR108	87-026-691-080		FUSE,10A 125V 251
⚠ PR201	87-026-691-080		FUSE,10A 125V 251
⚠ PR202	87-026-691-080		FUSE,10A 125V 251
⚠ PR301	87-026-691-080		FUSE,10A 125V 251
⚠ PR302	87-026-691-080		FUSE,10A 125V 251
⚠ PR401	87-026-691-080		FUSE,10A 125V 251
⚠ PR402	87-026-691-080		FUSE,10A 125V 251
⚠ R109	87-029-060-010		FUSING RESISTOR, 33,1/4W
R143	87-A00-259-080		RES,M/F 0.33-1W J<70>
R143	87-A00-261-080		RES,M/F 0.56-1W J<30,50>
R176	87-A00-401-050		RES,M/F 390-1W J VTP
R179	87-A00-402-050		RES,M/F 560-1W J VTP
R180	87-A00-403-080		RES,M/F 560-1W J T52L25.5
R231	87-A00-262-080		RES,M/F 0.15-2W J
R232	87-A00-262-080		RES,M/F 0.15-2W J
R233	87-A00-262-080		RES,M/F 0.15-2W J
R234	87-A00-262-080		RES,M/F 0.15-2W J
R281	87-A00-373-050		RES,M/F 270-1W J VTP
R282	87-A00-373-050		RES,M/F 270-1W J VTP
R283	87-A00-373-050		RES,M/F 270-1W J VTP
R284	87-A00-373-050		RES,M/F 270-1W J VTP
R331	87-A00-257-080		RES,M/F 0.15-1W J
R332	87-A00-257-080		RES,M/F 0.15-1W J
R333	87-A00-257-080		RES,M/F 0.15-1W J
R334	87-A00-257-080		RES,M/F 0.15-1W J
R416	87-A00-262-080		RES,M/F 0.15-2W J
R417	87-A00-262-080		RES,M/F 0.15-2W J
RY101	87-A90-454-010		RELAY,12V DJ12D2-O(M)
RY102	87-A90-454-010		RELAY,12V DJ12D2-O(M)<50,70>
RY281	87-A90-143-010		RELAY,DG12D-OS(M)<50,70>
RY481	87-A90-143-010		RELAY,DG12D-OS(M)<50,70>

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
S101	86-SP8-611-010		SW,SL 1-1-2<50,70>
S291	87-A90-174-010		SW,PUSH 2-2-2
S292	87-A90-174-010		SW,PUSH 2-2-2

FRONT C.B

C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C104	87-010-178-080		CHIP CAP 1000P
C105	87-012-156-080		C-CAP,S 220P-50 CH
C106	87-010-196-080		CHIP CAPACITOR,0.1-25
C107	87-010-316-080		C-CAP,S 33P-50 CH
C108	87-010-318-080		C-CAP,S 47P-50 CH
C109	87-010-312-080		C-CAP,S 15P-50 CH
C110	87-010-198-080		CAP, CHIP 0.022
C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C113	87-010-178-080		CHIP CAP 1000P
C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C115	87-010-196-080		CHIP CAPACITOR,0.1-25
C116	87-015-695-040		E/CAP 1UF 50V TAPG
C117	87-A10-189-040		CAP,E 220-10
C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C119	87-010-264-040		CAP,E 100-10 5L
C120	87-012-368-080		C-CAP,S 0.1-50 F
C121	87-010-408-040		CAP,E 47-50 SME
C122	87-015-699-040		CAP,E 10-50 7L
C123	87-015-699-040		CAP,E 10-50 7L
C126	87-015-699-040		CAP,E 10-50 7L
C127	87-015-695-040		E/CAP 1UF 50V TAPG
C128	87-010-247-080		CAP, ELECT 100-50V<50>
C136	87-012-157-080		C-CAP,S 330P-50 CH
C137	87-012-157-080		C-CAP,S 330P-50 CH
C138	87-012-157-080		C-CAP,S 330P-50 CH
C139	87-012-157-080		C-CAP,S 330P-50 CH
C140	87-012-157-080		C-CAP,S 330P-50 CH
C141	87-012-157-080		C-CAP,S 330P-50 CH
C142	87-012-157-080		C-CAP,S 330P-50 CH
C143	87-012-157-080		C-CAP,S 330P-50 CH
C144	87-012-157-080		C-CAP,S 330P-50 CH
C150	87-012-368-080		C-CAP,S 0.1-50 F
C151	87-018-209-080		CAP,TC-U 0.1-50V ZF
C350	87-016-526-080		C-CAP,S 0.47-16 BK
C351	87-016-526-080		C-CAP,S 0.47-16 BK
C352	87-016-526-080		C-CAP,S 0.47-16 BK
C353	87-016-526-080		C-CAP,S 0.47-16 BK
C381	87-010-186-080		CAP,CHIP 4700P
FFC103	88-912-061-110		FF-CABLE,12P 1.25
FL101	88-AR1-641-010		FL,9-MT166-GK
LED350	87-A40-317-080		LED,SLR-342VCT31 RED
LED351	87-A40-317-080		LED,SLR-342VCT31 RED
LED352	87-A40-317-080		LED,SLR-342VCT31 RED
LED353	87-A40-317-080		LED,SLR-342VCT31 RED
LED354	87-A40-317-080		LED,SLR-342VCT31 RED
LED355	87-A40-317-080		LED,SLR-342VCT31 RED
LED356	87-A40-317-080		LED,SLR-342VCT31 RED
LED357	87-A40-317-080		LED,SLR-342VCT31 RED
LED358	87-A40-496-040		LED,SLR-342MCT31 GRN
LED359	87-A40-496-040		LED,SLR-342MCT31 GRN
LED360	87-A40-496-040		LED,SLR-342MCT31 GRN
LED361	87-A40-496-040		LED,SLR-342MCT31 GRN
LED362	87-A40-496-040		LED,SLR-342MCT31 GRN
LED363	87-A40-496-040		LED,SLR-342MCT31 GRN
LED364	87-A40-496-040		LED,SLR-342MCT31 GRN
LED365	87-A40-496-040		LED,SLR-342MCT31 GRN
S401	87-A90-095-080		SW,TACT EVQ11G04M
S402	87-A90-095-080		SW,TACT EVQ11G04M
S403	87-A90-095-080		SW,TACT EVQ11G04M
S404	87-A90-095-080		SW,TACT EVQ11G04M
S405	87-A90-095-080		SW,TACT EVQ11G04M
S406	87-A90-095-080		SW,TACT EVQ11G04M
S407	87-A90-095-080		SW,TACT EVQ11G04M

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
S408	87-A90-095-080		SW,TACT EVQ11G04M
S409	87-A90-095-080		SW,TACT EVQ11G04M
S410	87-A90-095-080		SW,TACT EVQ11G04M
S411	87-A90-095-080		SW,TACT EVQ11G04M
S412	87-A90-095-080		SW,TACT EVQ11G04M
S413	87-A90-095-080		SW,TACT EVQ11G04M
S414	87-A90-095-080		SW,TACT EVQ11G04M
S421	87-A90-095-080		SW,TACT EVQ11G04M
S422	87-A90-095-080		SW,TACT EVQ11G04M
S423	87-A90-095-080		SW,TACT EVQ11G04M
S424	87-A90-095-080		SW,TACT EVQ11G04M
S425	87-A90-095-080		SW,TACT EVQ11G04M
S426	87-A90-095-080		SW,TACT EVQ11G04M
S427	87-A90-095-080		SW,TACT EVQ11G04M
S428	87-A90-095-080		SW,TACT EVQ11G04M
S429	87-A90-095-080		SW,TACT EVQ11G04M
S430	87-A90-095-080		SW,TACT EVQ11G04M
S441	87-A90-095-080		SW,TACT EVQ11G04M
S442	87-A90-095-080		SW,TACT EVQ11G04M
S443	87-A90-095-080		SW,TACT EVQ11G04M
S444	87-A90-095-080		SW,TACT EVQ11G04M
S445	87-A90-095-080		SW,TACT EVQ11G04M
S446	87-A90-095-080		SW,TACT EVQ11G04M
S447	87-A90-095-080		SW,TACT EVQ11G04M
S449	87-A90-095-080		SW,TACT EVQ11G04M
S450	87-A90-095-080		SW,TACT EVQ11G04M
S451	87-A90-095-080		SW,TACT EVQ11G04M
SW101	87-A90-535-010		SW,RTRY EC16B24304
X101	87-A70-075-080		VIB,CER 4.19MHZ CRHF
SW C.B			
S431	87-A90-095-080		SW,TACT EVQ11G04M<50,70>
S431	87-A90-696-080		SW,TACT TS2103-03-430<30>
S432	87-A90-095-080		SW,TACT EVQ11G04M<50,70>
S432	87-A90-696-080		SW,TACT TS2103-03-430<30>
S448	87-A90-095-080		SW,TACT EVQ11G04M<50,70>
S448	87-A90-696-080		SW,TACT TS2103-03-430<30>
JACK C.B			
C501	87-018-209-080		CAP, CER 0.1-50V
C502	87-018-209-080		CAP,TC-U 0.1-50V ZF
C503	87-018-209-080		CAP,TC-U 0.1-50V ZF
C504	87-018-202-080		CAP,TC-U 6800P-16N
C505	87-018-202-080		CAP,TC-U 6800P-16N
C602	87-018-209-080		CAP, CER 0.1-50V
FB501	87-008-372-080		FILTER, EMI BL OIRNI
FB602	87-008-372-080		FILTER, EMI BL OIRNI
J501	87-A60-606-010		JACK,PIN 3P R/W/Y W/O SW H
J603	87-A60-550-010		JACK,DIA6.3 BLK ST W/SW KM
TUNER C.B			
C701	87-010-260-080		CAP, ELECT 47-25V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25
C709	87-012-195-080		C-CAP,U 100P-50CH<70>
C711	87-010-263-080		CAP, ELECT 100-10V
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-012-286-080		CAP, U 0.01-25
C714	87-012-286-080		CAP, U 0.01-25
C717	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25
C721	87-012-176-080		CAP 15P
C722	87-012-176-080		CAP 15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-012-274-080		CHIP CAP,U 1000P-50B
C727	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C728	87-010-248-080		CAP, ELECT 220-10V
C755	87-012-286-080		CAP, U 0.01-25
C756	87-012-286-080		CAP, U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C763	87-010-829-080		CAP, U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH<30,50>
C765	87-012-286-080		CAP, U 0.01-25
C766	87-012-286-080		CAP, U 0.01-25
C769	87-010-260-080		CAP, ELECT 47-25V
C770	87-010-829-080		CAP, U 0.047-16
C771	87-010-383-080		CAP, ELECT 33-25V
C772	87-010-829-080		CAP, U 0.047-16
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-012-286-080		CAP, U 0.01-25
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-010-805-080		CAP, S 1-16
C786	87-010-805-080		CAP, S 1-16
C787	87-012-280-080		CAP, U 3300P-50
C788	87-012-280-080		CAP, U 3300P-50
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-012-273-080		C-CAP,U 820P-50 B
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-012-278-080		C-CAP,U 2200P-50 B
C798	87-012-278-080		C-CAP,U 2200P-50 B
C799	87-010-829-080		CAP, U 0.047-16
C812	87-012-286-080		CAP, U 0.01-25
C813	87-010-197-080		CAP, CHIP 0.01 DM
C814	87-012-286-080		CAP, U 0.01-25
C819	87-010-197-080		CAP, CHIP 0.01 DM
C820	87-010-260-080		CAP, ELECT 47-25V
C821	87-012-286-080		CAP, U 0.01-25
C822	87-012-286-080		CAP, U 0.01-25
C823	87-012-286-080		CAP, U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-012-170-080		C-CAP,U 8P-50 CH
CF801	87-008-261-010		FILTER, SFE10.7MA5-A
CF802	87-008-261-010		FILTER, SFE10.7MA5-A
CN601	87-099-028-010		CONN,11P 6216 H
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM
J801	87-A60-657-010		TERMINAL,4P HSP-154V5-02
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)
L781	87-005-847-080		COIL,2.2UH(CECS)
L791	87-A50-209-010		COIL,1POLE MPX(MIT)
L792	87-A50-209-010		COIL,1POLE MPX(MIT)
L832	87-005-847-080		COIL,2.2UH(CECS)
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA4.09
PROLOGIC C.B<30,50>			

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C750	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C751	87-010-193-080		CHIP CAPACITOR,0.033<30,50>
C752	87-010-993-080		C-CAP,S 0.056-25 B<30,50>
C753	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C754	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C755	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C756	87-010-402-080		CAP, ELECT 2.2-50V<30,50>
C801	87-010-176-080		C-CAP,S 680P-50 SL<30,50>
C802	87-010-176-080		C-CAP,S 680P-50 SL<30,50>
C807	87-010-405-080		CAP, ELECT 10-50V<30,50>
C808	87-010-405-080		CAP, ELECT 10-50V<30,50>
C809	87-016-456-080		CAP,E 22-16 LLA<30,50>
C810	87-010-178-080		CHIP CAP 1000P<30,50>
C811	87-010-380-080		CAP, ELECT 47-16V<30,50>
C813	87-016-472-080		CAP,E 22-16 SME(K)<30,50>
C814	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C815	87-010-112-080		CAP, ELECT 100-16V<30,50>
C816	87-010-263-080		CAP, ELECT 100-10V<30,50>
C817	87-010-314-080		C-CAP,S 22P-50V<30,50>
C818	87-010-401-080		CAP, ELECT 1-50V<30,50>
C819	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C820	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C821	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C822	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C823	87-010-378-080		CAP, ELECT 10-16V<30,50>
C824	87-010-378-080		CAP, ELECT 10-16V<30,50>
C825	87-010-401-080		CAP, ELECT 1-50V<30,50>
C826	87-010-401-080		CAP, ELECT 1-50V<30,50>
C827	87-010-178-080		CHIP CAP 1000P<30,50>
C828	87-010-178-080		CHIP CAP 1000P<30,50>
C829	87-016-081-080		C-CAP,S 0.1-16 RK<30,50>
C830	87-010-248-080		CAP, ELECT 220-10V<30,50>
C831	87-012-140-080		CAP 470P<30,50>
C832	87-010-186-080		CAP,CHIP 4700P<30,50>
C835	87-A10-229-080		C-CAP,S 0.68-10 K W5<30,50>
C836	87-010-186-080		CAP,CHIP 4700P<30,50>
C837	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C838	87-012-393-080		C-CAP,S 0.22-16 R K<30,50>
C839	87-012-393-080		C-CAP,S 0.22-16 R K<30,50>
C840	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C841	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C842	87-012-393-080		C-CAP,S 0.22-16 R K<30,50>
C843	87-012-393-080		C-CAP,S 0.22-16 R K<30,50>
C844	87-016-081-080		C-CAP,S 0.1-16 RK<30,50>
C847	87-016-081-080		C-CAP,S 0.1-16 RK<30,50>
C848	87-016-081-080		C-CAP,S 0.1-16 RK<30,50>
C851	87-016-081-080		C-CAP,S 0.1-16 RK<30,50>
C852	87-010-314-080		C-CAP,S 22P-50V<30,50>
C853	87-016-460-080		C-CAP,S 0.22-16 B<30,50>
C854	87-016-460-080		C-CAP,S 0.22-16 B<30,50>
C855	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C856	87-016-526-080		C-CAP,S 0.47-16 BK<30,50>
C857	87-010-183-080		C-CAP,S 2700P-50 B<30,50>
C858	87-010-176-080		C-CAP,S 680P-50 SL<30,50>
C859	87-016-552-080		C-CAP,S 0.082-16 B K<30,50>
C860	87-016-552-080		C-CAP,S 0.082-16 B K<30,50>
C861	87-010-183-080		C-CAP,S 2700P-50 B<30,50>
C862	87-010-176-080		C-CAP,S 680P-50 SL<30,50>
C863	87-A10-830-080		C-CAP,S 0.33-16 K<30,50>
C864	87-010-403-080		CAP, ELECT 3.3-50V<30,50>
C865	87-010-263-080		CAP, ELECT 100-10V<30,50>
C866	87-010-263-080		CAP, ELECT 100-10V<30,50>
C867	87-010-404-080		CAP, ELECT 4.7-50V<30,50>
C868	87-018-134-080		CAPACITOR,TC-U 0.01-16<30,50>
C869	87-010-196-080		CHIP CAPACITOR,0.1-25<30,50>
C870	87-010-314-080		C-CAP,S 22P-50V<30,50>
FB802	87-008-372-080		FILTER, EMI BL OIRNI<30,50>
R827	87-A00-296-080		C-RES,100K-1/8W F<30,50>

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
AC-3 C.B<70>			
C101	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C102	87-010-374-080		CAP, ELECT 47-10V<70>
C103	87-010-314-080		C-CAP,S 22P-50V<70>
C104	87-010-313-080		CAP, CHIP 18P<70>
C105	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C106	87-010-197-080		CAP, CHIP 0.01 DM<70>
C107	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C108	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C109	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C110	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C111	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C112	87-010-404-080		CAP, ELECT 4.7-50V<70>
C113	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C114	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C115	87-010-374-080		CAP, ELECT 47-10V<70>
C116	87-012-140-080		CAP 470P<70>
C117	87-010-198-080		CAP, CHIP 0.022<70>
C118	87-010-401-080		CAP, ELECT 1-50V<70>
C119	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C120	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C121	87-010-401-080		CAP, ELECT 1-50V<70>
C122	87-010-311-080		CAP 12P<70>
C123	87-010-311-080		CAP 12P<70>
C124	87-010-263-080		CAP, ELECT 100-10V<70>
C125	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C126	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C127	87-010-555-040		CAP,E 100-10 GAS<70>
C128	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C129	87-010-384-080		CAP, ELECT 100-25V<70>
C131	87-010-263-080		CAP, ELECT 100-10V<70>
C132	87-010-401-080		CAP, ELECT 1-50V<70>
C133	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C134	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C135	87-010-405-080		CAP, ELECT 10-50V<70>
C136	87-010-405-080		CAP, ELECT 10-50V<70>
C137	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C138	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C139	87-010-314-080		C-CAP,S 22P-50V<70>
C140	87-010-552-040		CAP,E 22-16 GAS<70>
C141	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C142	87-010-182-080		C-CAP,S 2200P-50 B<70>
C143	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C145	87-012-154-080		C-CAP,S 150P-50 CH<70>
C146	87-012-154-080		C-CAP,S 150P-50 CH<70>
C147	87-010-405-080		CAP, ELECT 10-50V<70>
C148	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C149	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C150	87-010-405-080		CAP, ELECT 10-50V<70>
C151	87-010-405-080		CAP, ELECT 10-50V<70>
C152	87-010-405-080		CAP, ELECT 10-50V<70>
C153	87-010-178-080		CHIP CAP 1000P<70>
C154	87-010-178-080		CHIP CAP 1000P<70>
C155	87-A10-369-080		C-CAP,S 0.47-16 K B<70>
C157	87-012-154-080		C-CAP,S 150P-50 CH<70>
C158	87-012-154-080		C-CAP,S 150P-50 CH<70>
C159	87-010-178-080		CHIP CAP 1000P<70>
C160	87-010-178-080		CHIP CAP 1000P<70>
C161	87-010-405-080		CAP, ELECT 10-50V<70>
C162	87-010-405-080		CAP, ELECT 10-50V<70>
C163	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C164	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C165	87-A10-369-080		C-CAP,S 0.47-16 K B<70>
C166	87-010-405-080		CAP, ELECT 10-50V<70>
C167	87-010-405-080		CAP, ELECT 10-50V<70>
C169	87-012-154-080		C-CAP,S 150P-50 CH<70>
C170	87-012-154-080		C-CAP,S 150P-50 CH<70>
C171	87-010-178-080		CHIP CAP 1000P<70>
C172	87-010-178-080		CHIP CAP 1000P<70>

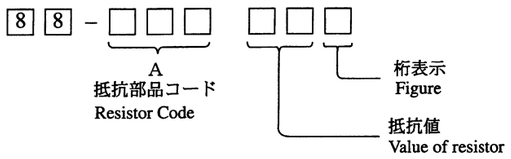
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C174	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C175	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C177	87-A10-369-080		C-CAP,S 0.47-16 K B<70>
C178	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C179	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C180	87-010-405-080		CAP, ELECT 10-50V<70>
C181	87-010-405-080		CAP, ELECT 10-50V<70>
C182	87-010-405-080		CAP, ELECT 10-50V<70>
C183	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C184	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C185	87-010-405-080		CAP, ELECT 10-50V<70>
C186	87-010-405-080		CAP, ELECT 10-50V<70>
C187	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C188	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C189	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C190	87-010-405-080		CAP, ELECT 10-50V<70>
C191	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C192	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C193	87-010-154-080		CAP CHIP 10P<70>
C194	87-010-154-080		CAP CHIP 10P<70>
C195	87-010-405-080		CAP, ELECT 10-50V<70>
C196	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C197	87-010-405-080		CAP, ELECT 10-50V<70>
C198	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C199	87-A10-369-080		C-CAP,S 0.47-16 K B<70>
C201	87-010-154-080		CAP CHIP 10P<70>
C202	87-010-154-080		CAP CHIP 10P<70>
C203	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C204	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C205	87-A10-369-080		C-CAP,S 0.47-16 K B<70>
C206	87-010-401-080		CAP, ELECT 1-50V<70>
C207	87-010-405-080		CAP, ELECT 10-50V<70>
C208	87-010-405-080		CAP, ELECT 10-50V<70>
C209	87-010-154-080		CAP CHIP 10P<70>
C210	87-010-154-080		CAP CHIP 10P<70>
C211	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C212	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C213	87-A10-369-080		C-CAP,S 0.47-16 K B<70>
C214	87-010-405-080		CAP, ELECT 10-50V<70>
C215	87-010-405-080		CAP, ELECT 10-50V<70>
C216	87-010-405-080		CAP, ELECT 10-50V<70>
C219	87-010-993-080		C-CAP,S 0.056-25 B<70>
C220	87-A10-369-080		C-CAP,S 0.47-16 K B<70>
C222	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C224	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C227	87-010-405-080		CAP, ELECT 10-50V<70>
C228	87-010-405-080		CAP, ELECT 10-50V<70>
C236	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C237	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C238	87-010-314-080		C-CAP,S 22P-50V<70>
C239	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C240	87-010-314-080		C-CAP,S 22P-50V<70>
C241	87-010-405-080		CAP, ELECT 10-50V<70>
C242	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C243	87-010-322-080		C-CAP,S 100P-50 CH<70>
C280	87-010-401-080		CAP, ELECT 1-50V<70>
C301	87-012-393-080		C-CAP,S 0.22-16 R K<70>
C302	87-012-393-080		C-CAP,S 0.22-16 R K<70>
C303	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C304	87-012-393-080		C-CAP,S 0.22-16 R K<70>
C305	87-010-184-080		CHIP CAPACITOR 3300P(K)<70>
C306	87-010-183-080		C-CAP,S 2700P-50 B<70>
C307	87-016-669-080		C-CAP,S 0.1-25 K B<70>
C308	87-016-669-080		C-CAP,S 0.1-25 K B<70>
C309	87-010-184-080		CHIP CAPACITOR 3300P(K)<70>
C310	87-010-183-080		C-CAP,S 2700P-50 B<70>
C311	87-012-393-080		C-CAP,S 0.22-16 R K<70>
C312	87-010-374-080		CAP, ELECT 47-10V<70>
C313	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C315	87-010-404-080		CAP, ELECT 4.7-50V<70>

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C316	87-010-404-080		CAP, ELECT 4.7-50V<70>
C317	87-010-183-080		C-CAP,S 2700P-50 B<70>
C318	87-010-183-080		C-CAP,S 2700P-50 B<70>
C319	87-010-545-080		CAP, ELECT 0.22-50V<70>
C320	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C321	87-010-263-080		CAP, ELECT 100-10V<70>
CN103	88-AR1-658-010		CONN ASSY,2P (AC-3)<70>
FB101	87-008-372-080		FILTER, EMI BL OIRNI<70>
FB102	87-008-372-080		FILTER, EMI BL OIRNI<70>
FB103	87-008-372-080		FILTER, EMI BL OIRNI<70>
FB104	87-008-372-080		FILTER, EMI BL OIRNI<70>
FB105	87-008-372-080		FILTER, EMI BL OIRNI<70>
FB118	87-008-474-080		F-BEAD,EMI BL02RN1<70>
FB119	87-008-474-080		F-BEAD,EMI BL02RN1<70>
FB157	87-008-474-080		F-BEAD,EMI BL02RN1<70>
J101	87-A60-573-010		JACK,PIN 1P ORN<70>
L102	87-A50-095-010		COIL,68UH RCR875D<70>
L103	87-005-274-080		COIL,68UH K LAL03<70>
L104	87-008-501-080		FLTR,DSS306-B101<70>
L105	87-008-501-080		FLTR,DSS306-B101<70>
X101	87-A70-116-010		VIB,XTAL 10.00MHZ<70>
X102	87-A70-115-010		VIB,XTAL 12.288MHZ<70>
OSD C.B<70>			
C101	87-010-263-080		CAP, ELECT 100-10V<70>
C102	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C103	87-010-400-080		CAP, ELECT 0.47-50V<70>
C104	87-010-315-080		C-CAP,S 27P-50 CH<70>
C106	87-012-159-080		C-CAP,S 24P-50 CH<70>
C107	87-010-198-080		CAP, CHIP 0.022<70>
C108	87-010-805-080		CAP, S 1-16<70>
C110	87-010-401-080		CAP, ELECT 1-50V<70>
C111	87-010-545-080		CAP, ELECT 0.22-50V<70>
C113	87-010-196-080		CHIP CAPACITOR,0.1-25<70>
C114	87-016-079-040		CAP,E 100-6.3 MJ<70>
C115	87-010-149-080		C-CAP,S 5P-50 CH<70>
C116	87-010-149-080		C-CAP,S 5P-50 CH<70>
C117	87-012-150-080		C-CAP,S 20P-50 CH<70>
C118	87-010-316-080		C-CAP,S 33P-50 CH<70>
C119	87-010-401-080		CAP, ELECT 1-50V<70>
C121	87-010-401-080		CAP, ELECT 1-50V<70>
C122	87-010-322-080		C-CAP,S 100P-50 CH<70>
C125	87-012-154-080		C-CAP,S 150P-50 CH<70>
L101	87-A50-083-080		COIL,47UH (CECS)<70>
L102	87-005-839-080		COIL,5.6UH G LF5.0S<70>
L103	87-A50-083-080		COIL,47UH (CECS)<70>
L104	87-005-849-080		COIL,10UH(CECS)<70>
X101	80-JU1-676-080		VIB,XTAL 14.31MHZ<70>
SUR RY C.B<50,70>			
RY101	87-A90-143-010		RELAY,DG12D-OS(M)<50,70>
POWER-1 C.B			
⚠ F101	87-035-494-010		FUSE,10A 125V T237<50,70>
⚠ F101	87-035-493-010		FUSE,8A 125V T237<30>
⚠ FC1	87-A90-160-080		FUSE CLAMP,FC 51F
⚠ FC2	87-A90-160-080		FUSE CLAMP,FC 51F
⚠ PT101	88-AR1-650-010		PT,8AR-1(U)<50,70>
⚠ PT101	88-AR3-601-010		PT,8AR-3(U)<30>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC
POWER-2 C.B			
⚠ PR105	87-026-691-080		FUSE,10A 125V 251
⚠ PR106	87-026-691-080		FUSE,10A 125V 251

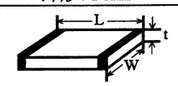
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
SUB C.B			
C101	87-010-378-080		CAP,E 10-16V
C103	87-010-378-080		CAP,E 10-16V
C104	87-012-368-080		C-CAP,S 0.1-50 F
C105	87-012-368-080		C-CAP,S 0.1-50 F

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

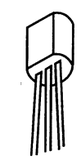
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

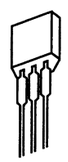
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Diamensions (mm) 外形 / Form	L	W	t	抵抗コード :A Resistor Code :A
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



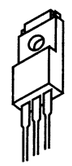
ECB

2SA965
2SA1296
CC5551
CSD1489
KTA1266
KTC3198



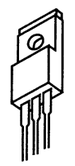
ECB

2SC4115



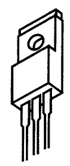
ECB

2SB1370



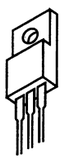
BCE

FN1016
FP1016



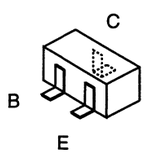
GDS

2SK2937

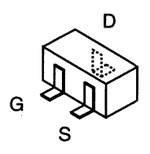


BCE

2SB1375

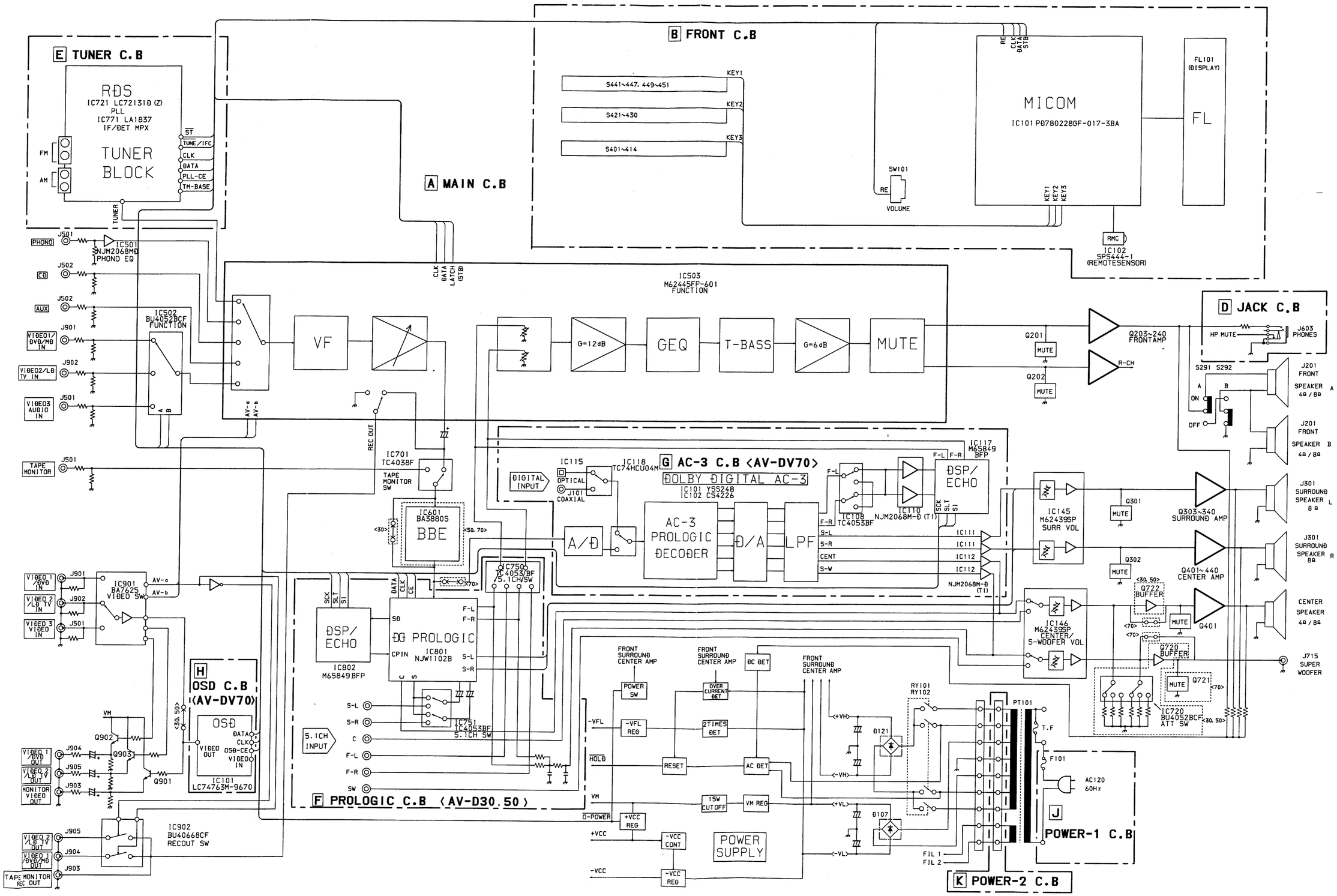


2SA1037
2SA1235
2SC2714
2SC3052
CMBT5401
CMBT5551
CSD1306
DTA144WK
DTC124EK
RN1410
RTIN141C
RTIN144C
RTIP141C
RTIP144C

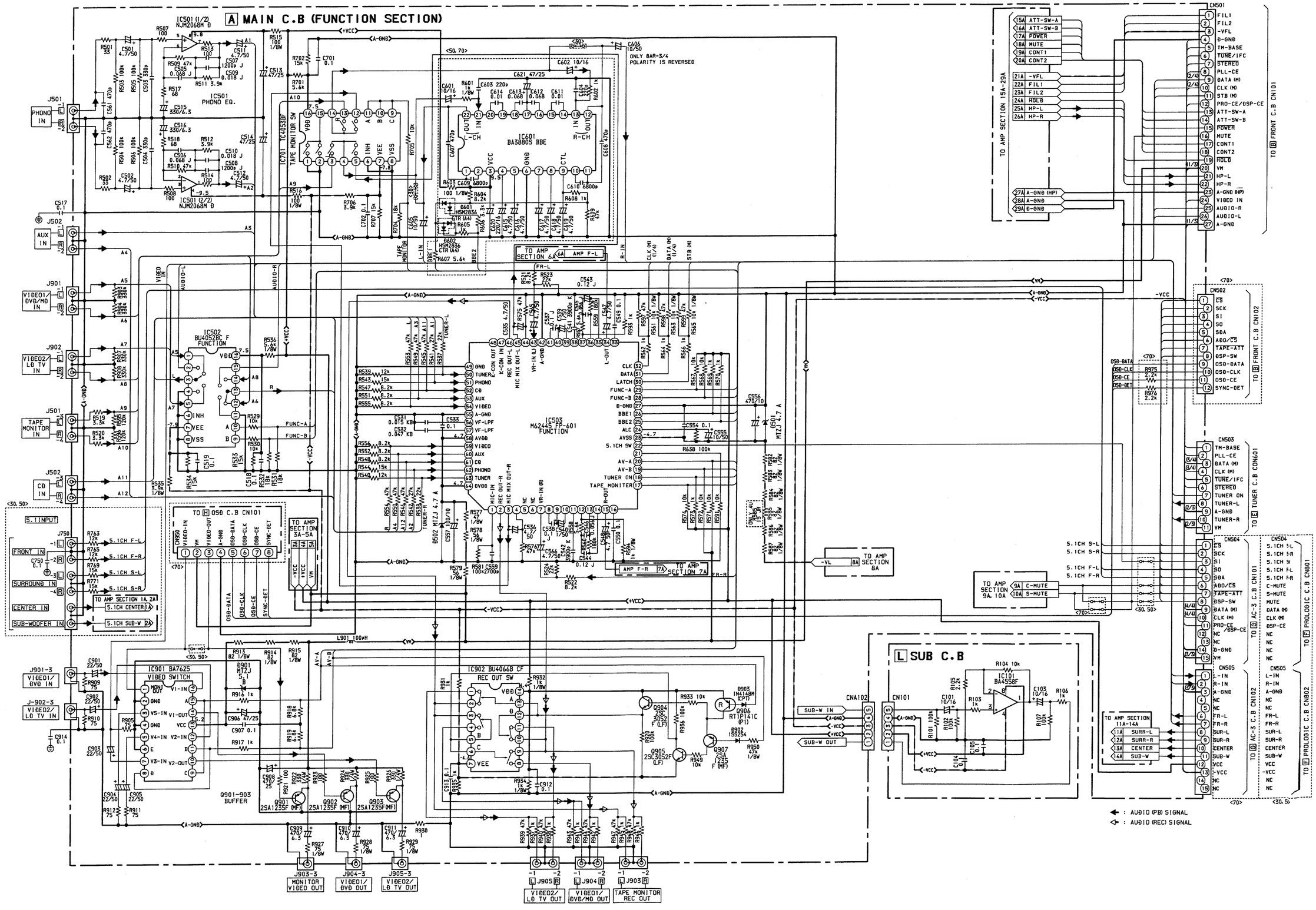


2SK2158

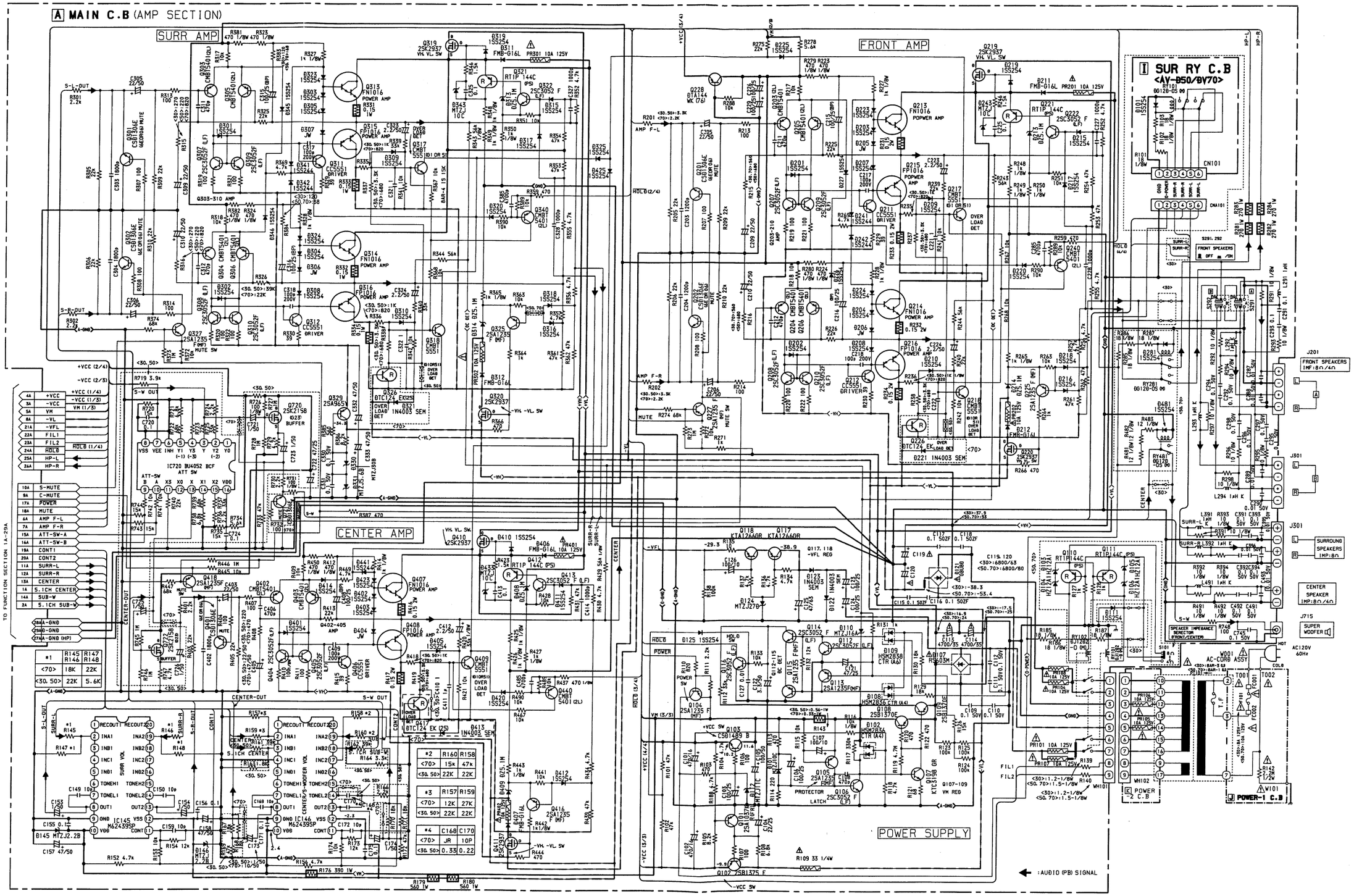
BLOCK DIAGRAM



SCHEMATIC DIAGRAM-1 (MAIN-FUNC SECTION)



SCHEMATIC DIAGRAM-2 (MAIN-AMP SECTION)



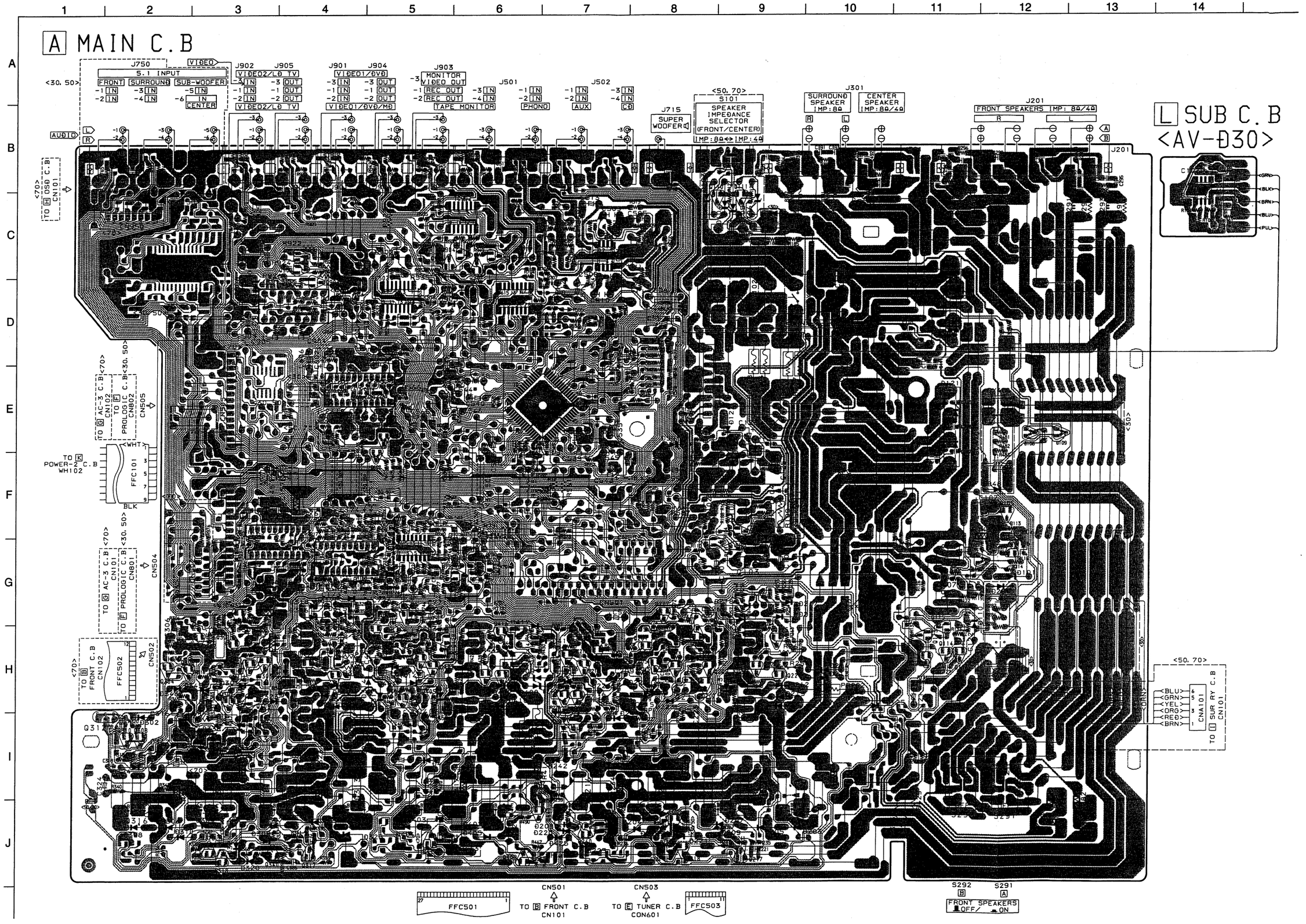
*1	R145	R147
	R146	R148
<70>	18K	22K
<30, 50>	22K	5.6K

*2	R160	R158
<70>	15K	47K
<30, 50>	22K	22K

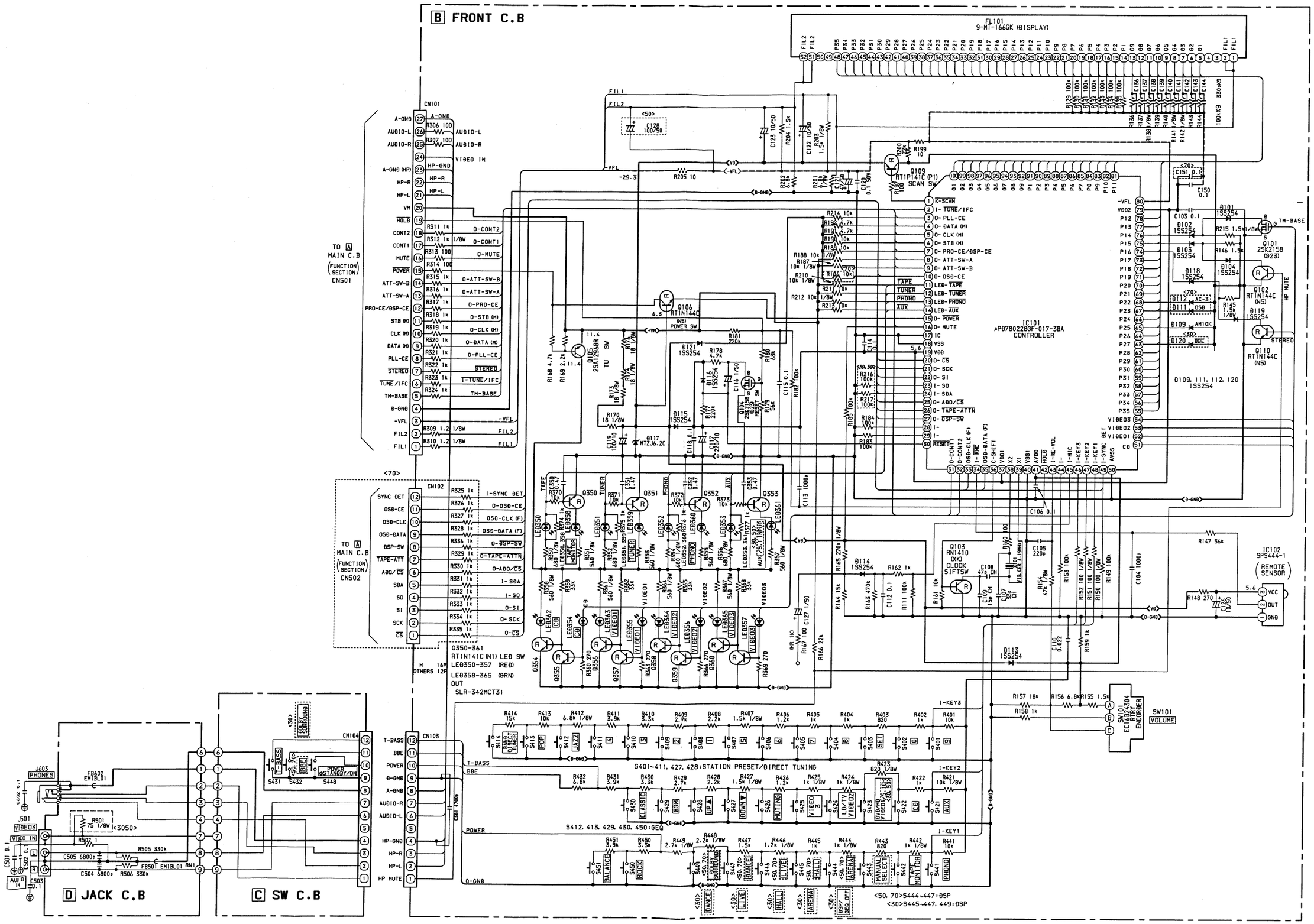
*3	R157	R159
<70>	12K	27K
<30, 50>	22K	22K

*4	C168	C170
<70>	JR	10P
<30, 50>	0.33	0.22

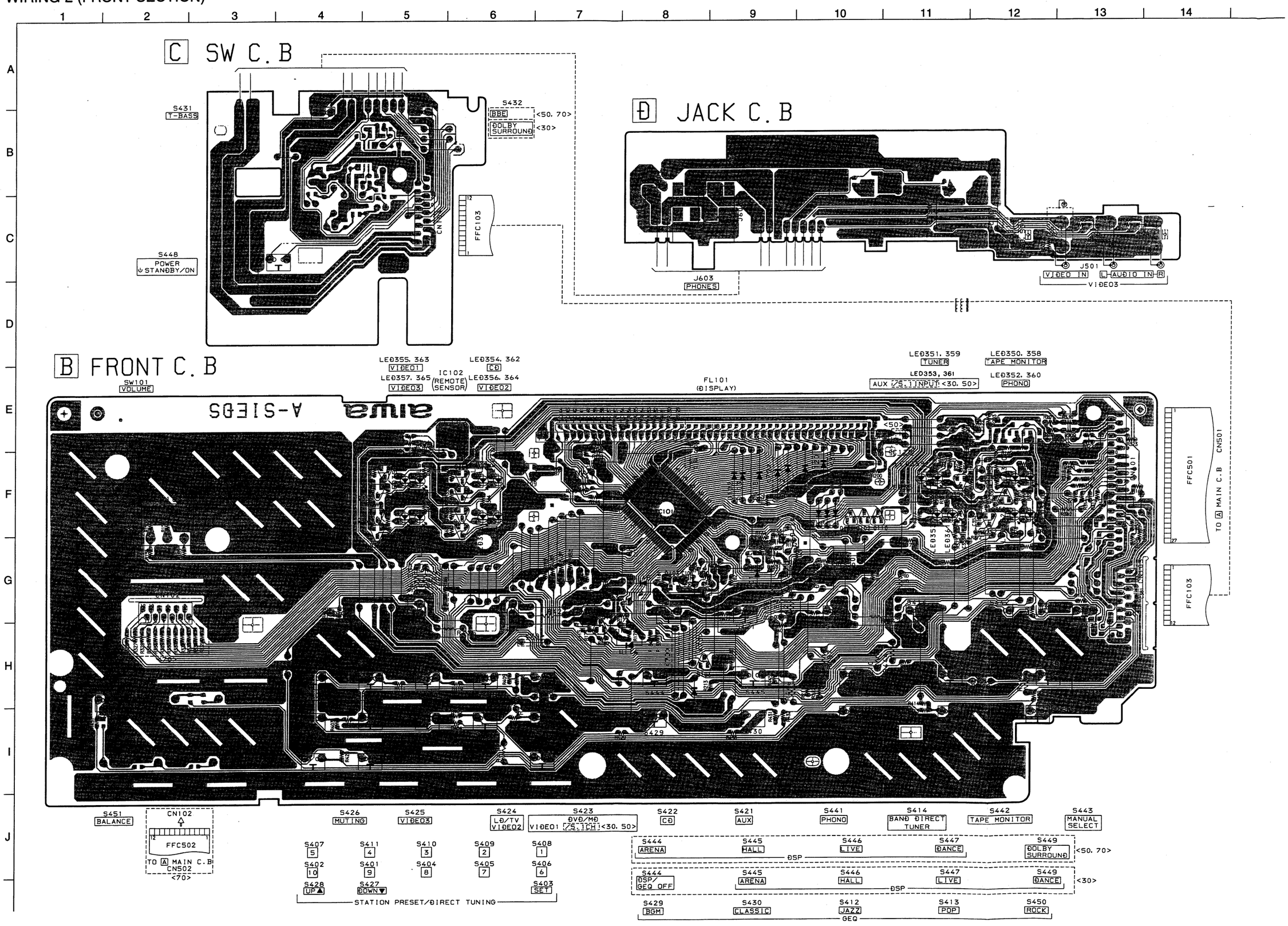
WIRING-1 (MAIN SECTION)



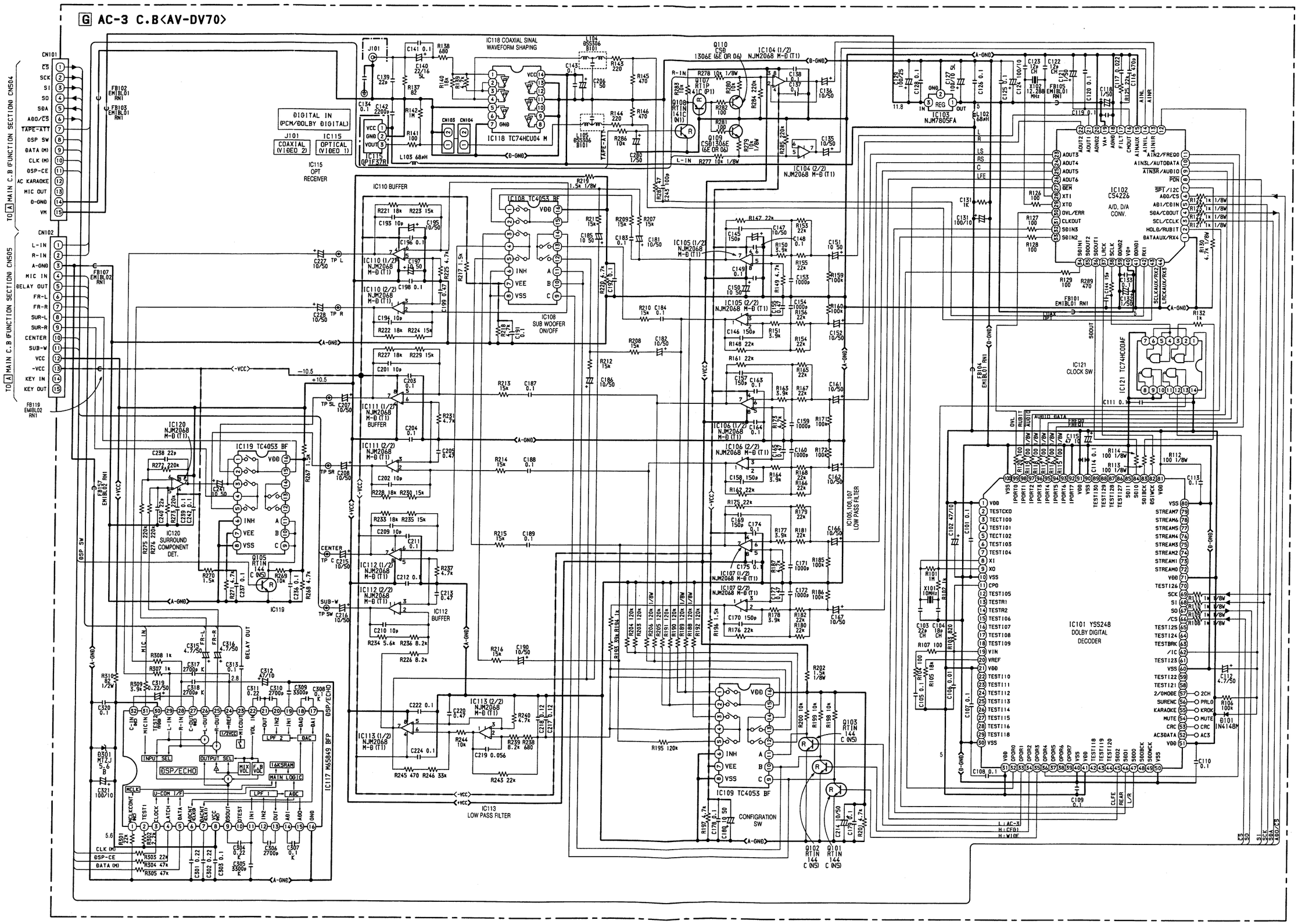
SCHEMATIC DIAGRAM-3 (FRONT SECTION)



WIRING-2 (FRONT SECTION)

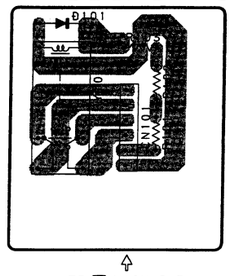


SCHEMATIC DIAGRAM-4 (AC-3 SECTION)

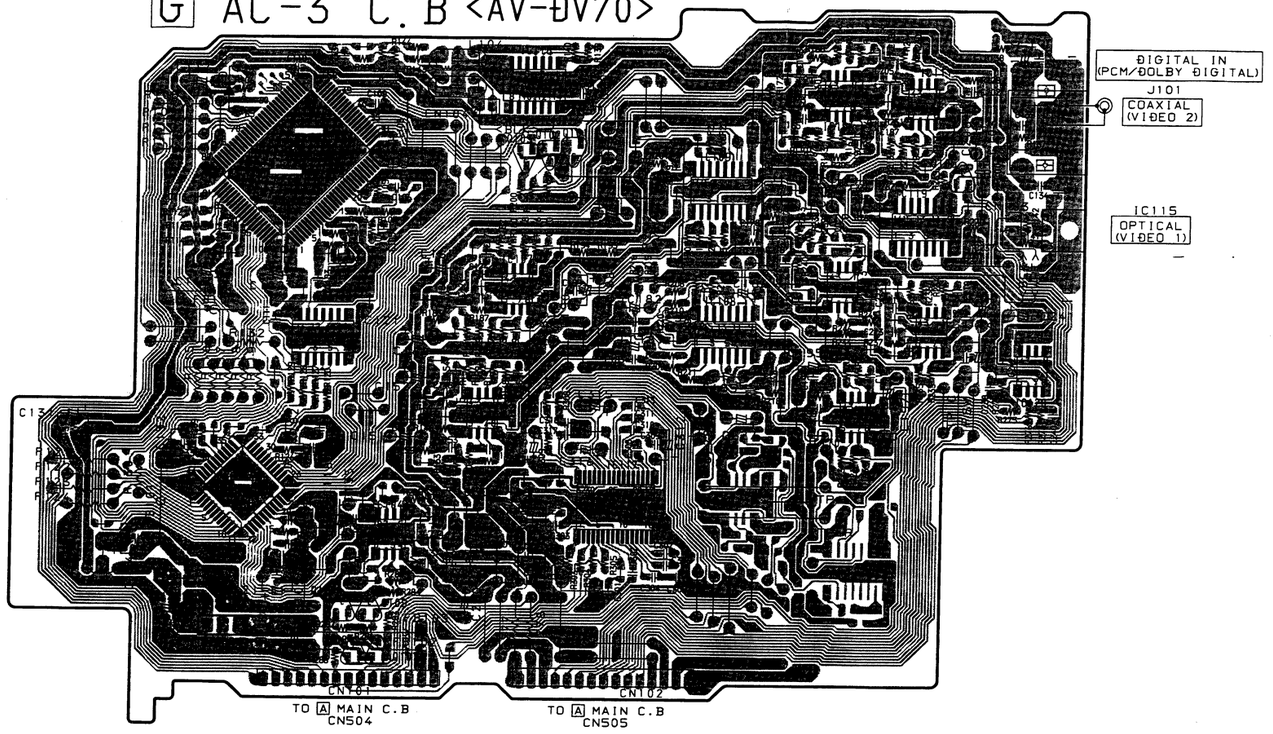


WIRING-3 (AC-3, OSD, SUR-RF SECTION)

I SUR RY C.B <AV-D50/DV70>

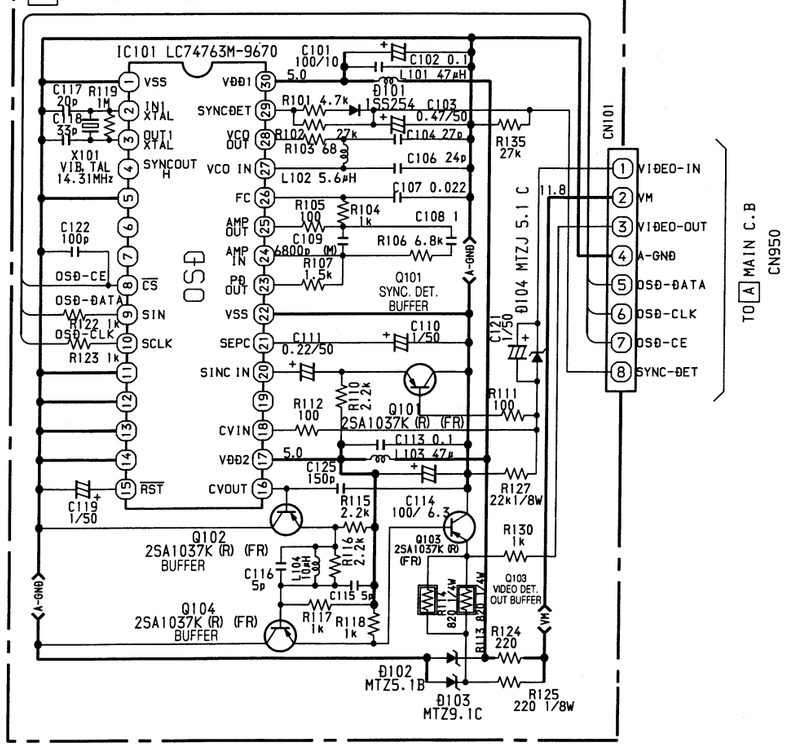


G AC-3 C.B <AV-DV70>

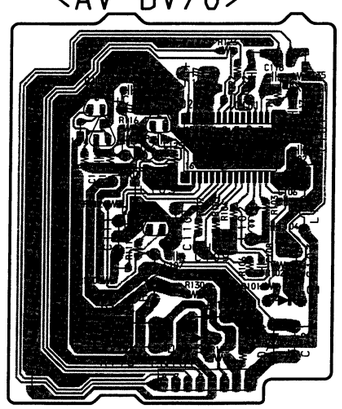


SCHEMATIC DIAGRAM-5 (OSD SECTION)

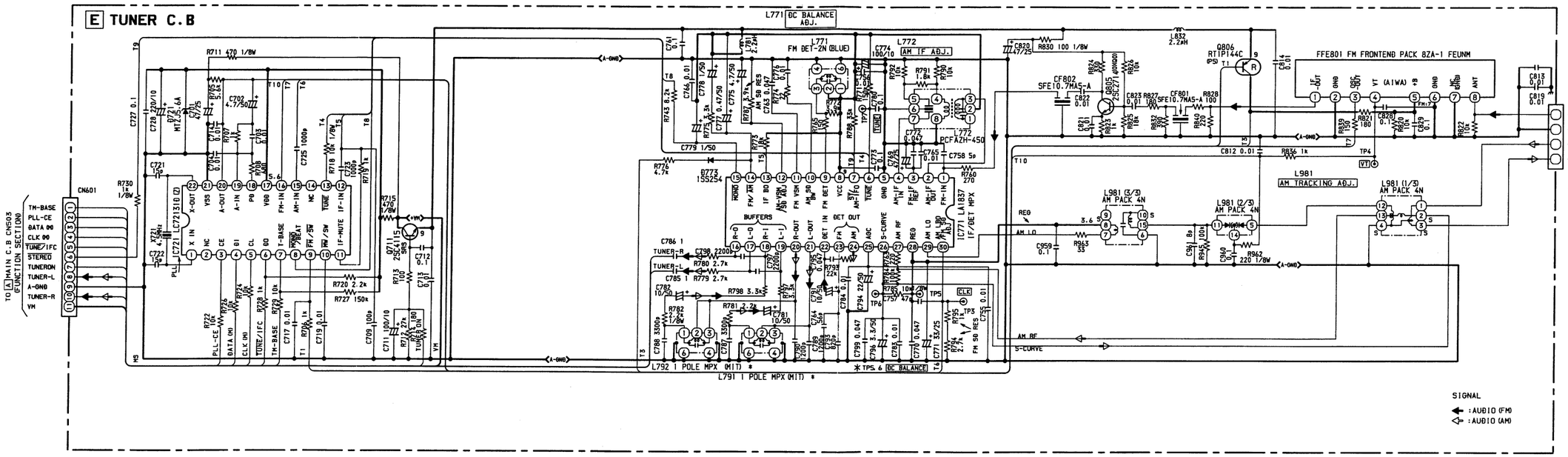
H OSD C.B <AV-DV70>



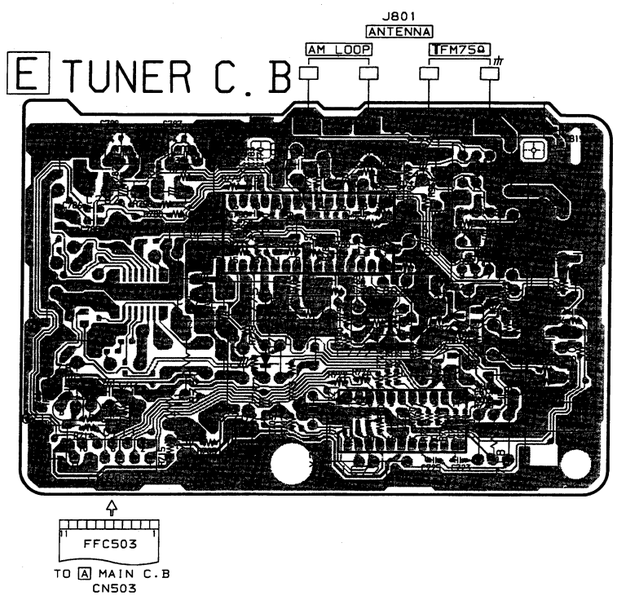
H OSD C.B <AV-DV70>



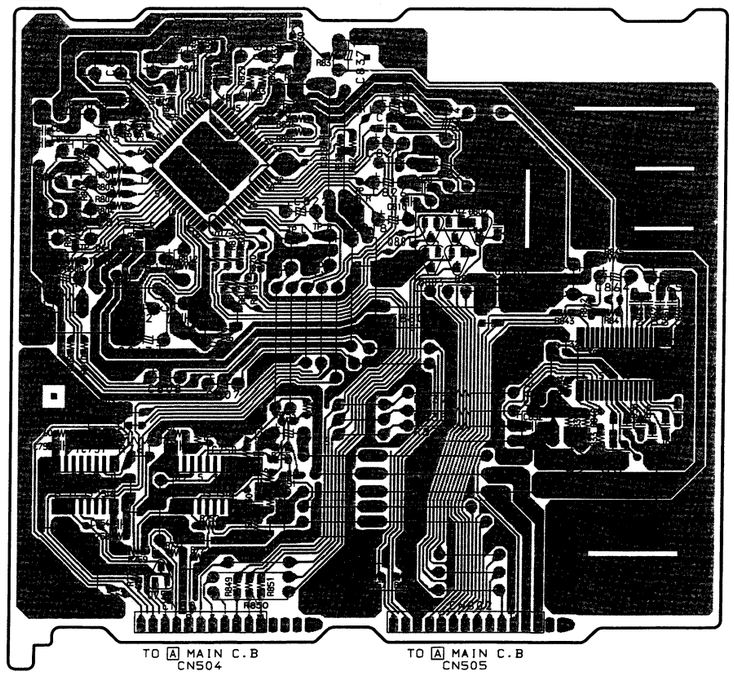
SCHEMATIC DIAGRAM-6 (TUNER SECTION)



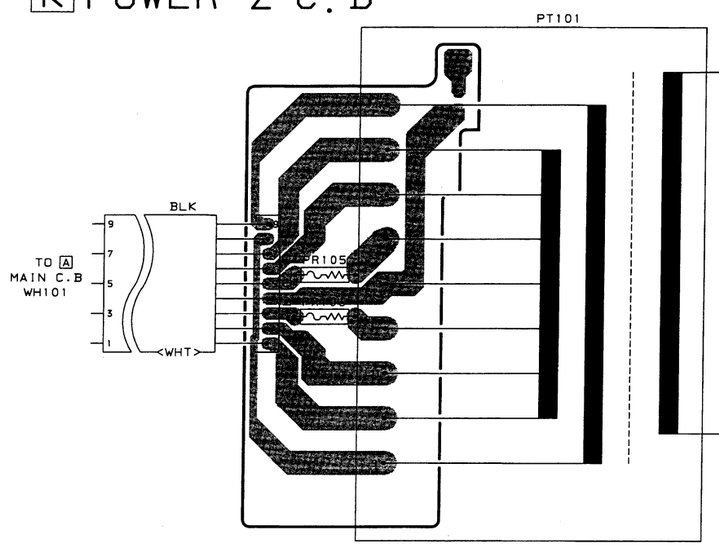
E TUNER C.B



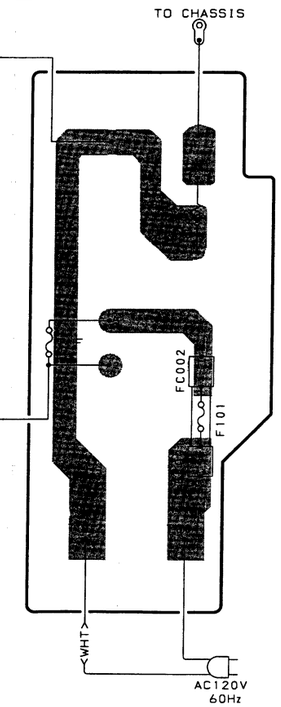
F PROLOGIC C.B <AV-Ð30, 50>



K POWER-2 C.B

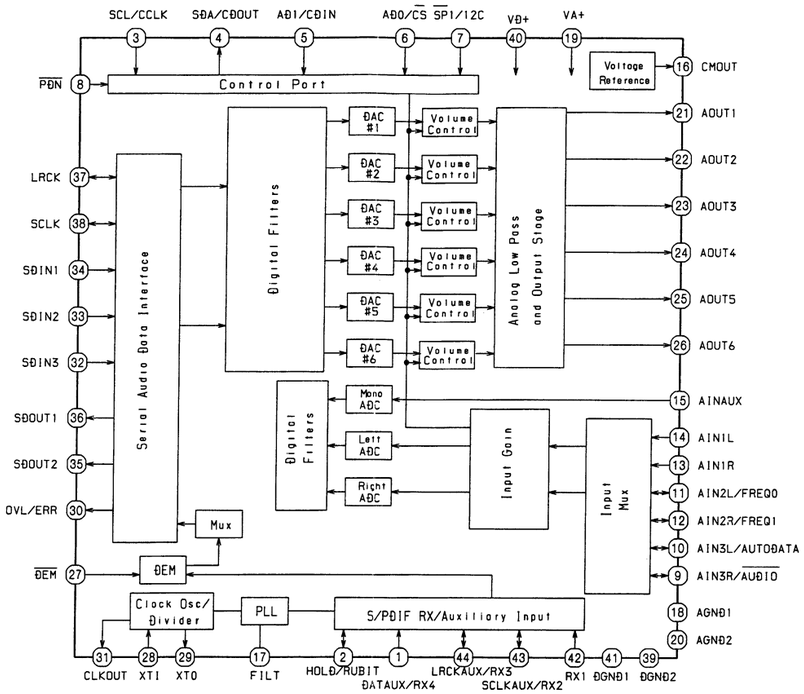


J POWER-1 C.B

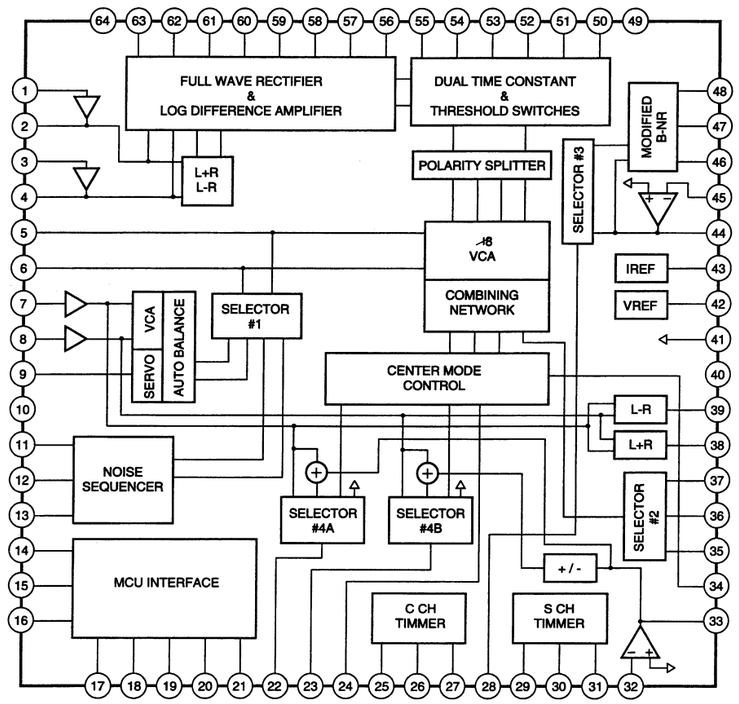


IC BLOCK DIAGRAM-1

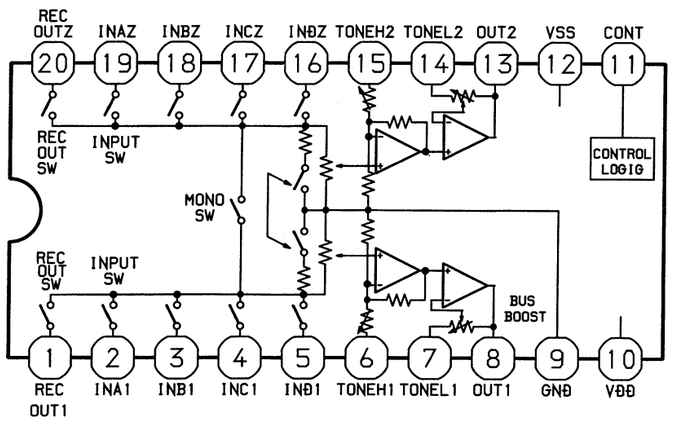
IC, CS4226



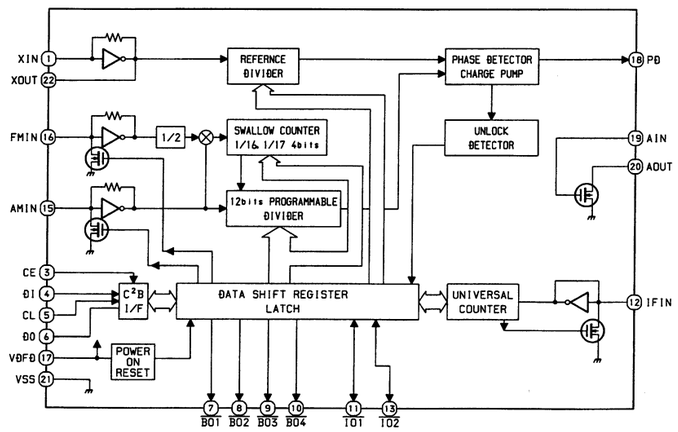
IC, NJM1102B

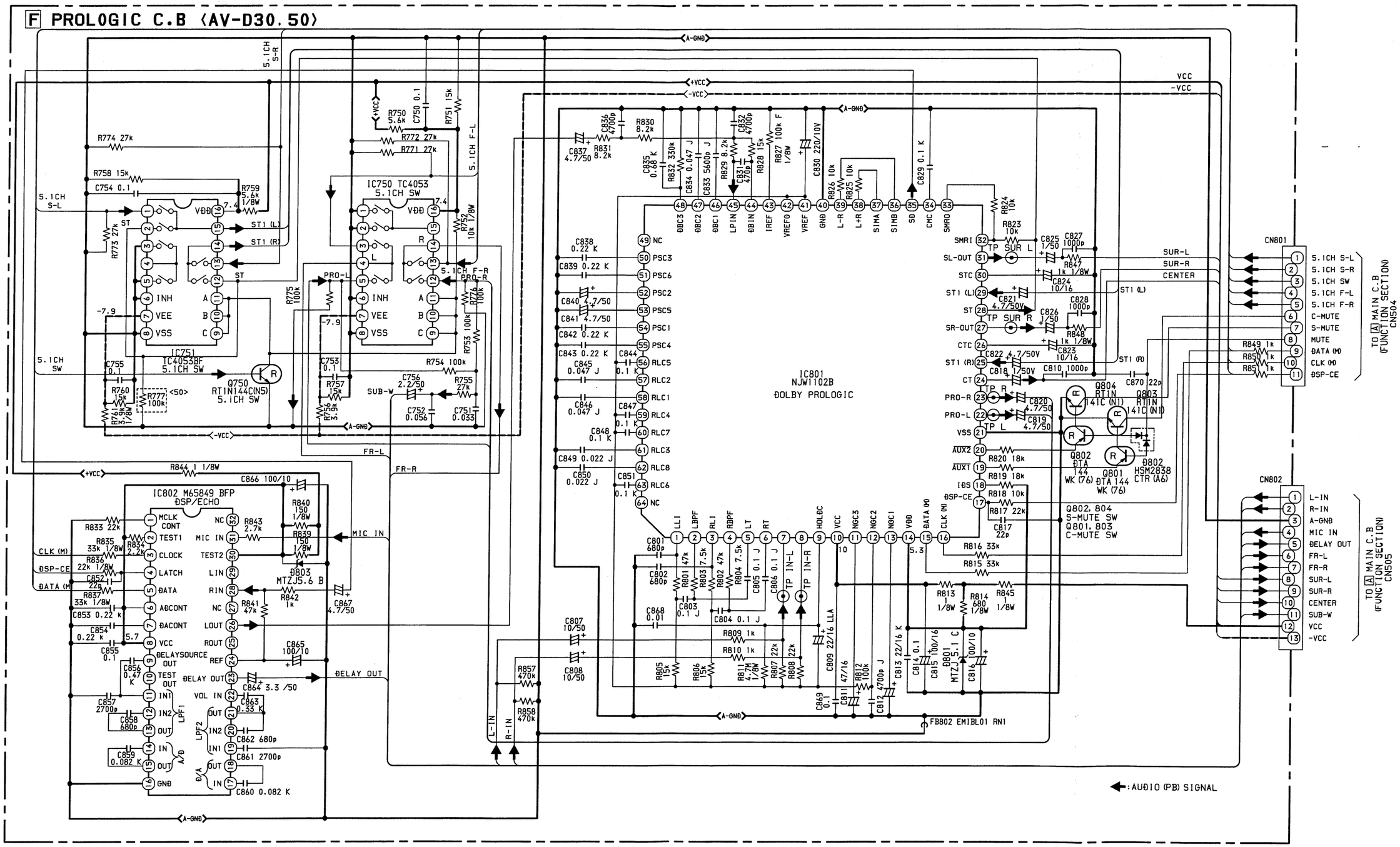


IC, M6243PSP



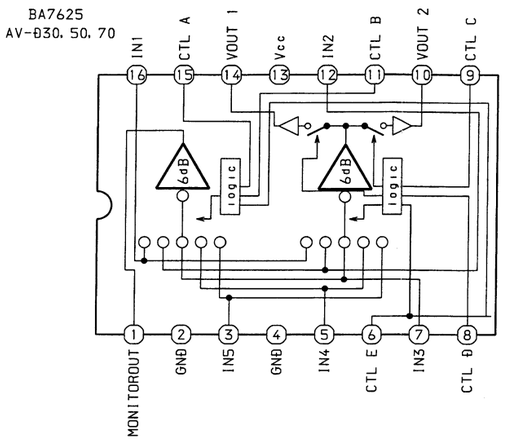
IC, LC72131




F PROLOGIC C.B (AV-D30.50)
IC751 TC4053BF 5.1CH SW
IC750 TC4053 5.1CH SW
IC802 M65849 BFP ÐSP/ECHO
IC801 NJW1102B ÐOLBY PROLOGIC
Q750 RT1N144C(N5) 5.1CH SW
Q803 MTZJ5.6 B
Q804 RT1N141C (N1)
Q802 ÐTA144 WK (76)
Q801 ÐTA144 WK (76)
Q803 RT1N141C (N1)
Q802, 804 S-MUTE SW
Q801, 803 C-MUTE SW
FB802 EMIBL01 RN1
CN801
CN802
TO A MAIN C.B (FUNCTION SECTION) CN504
TO A MAIN C.B (FUNCTION SECTION) CN505
5.1CH S-L
5.1CH S-R
5.1CH SW
5.1CH F-L
5.1CH F-R
C-MUTE
S-MUTE
MUTE
ÐATA (M)
ÐSP-CE
CLK (M)
SUR-L
SUR-R
CENTER
SUB-W
MIC IN
ÐELAY OUT
FR-L
FR-R
L-IN
R-IN
VCC
-VCC
A-GNÐ
+VCC
-VCC
ST
ST1 (L)
ST1 (R)
PRO-L
PRO-R
SUB-W
: AUÐIO (PB) SIGNAL

IC BLOCK DIAGRAM-2

IC, BA7625



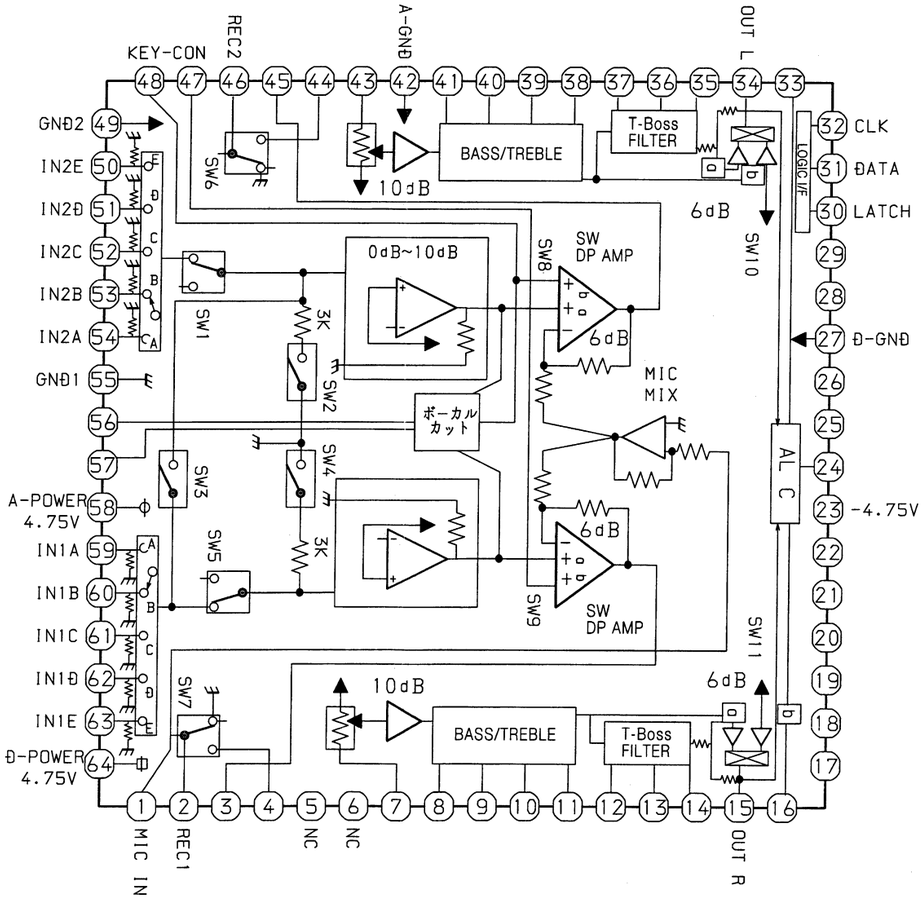
A	B	E	MONITOROUT
L	L	*	IN 1
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

C	Ð	E	V OUT 1
L	L	*	-
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

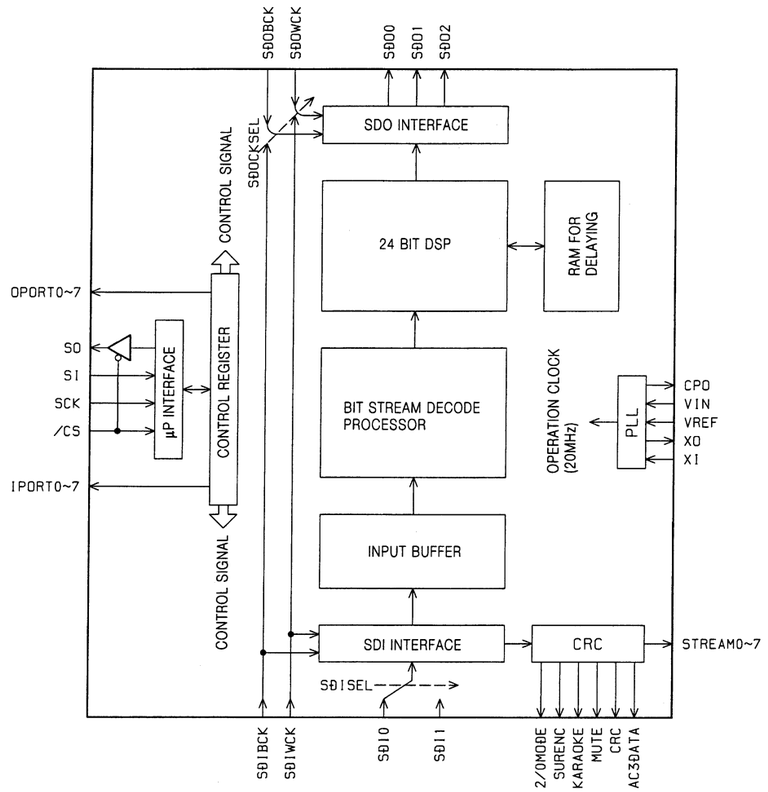
C	Ð	E	V OUT 2
L	L	*	IN 1
H	L	*	-
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

* H/L nothing

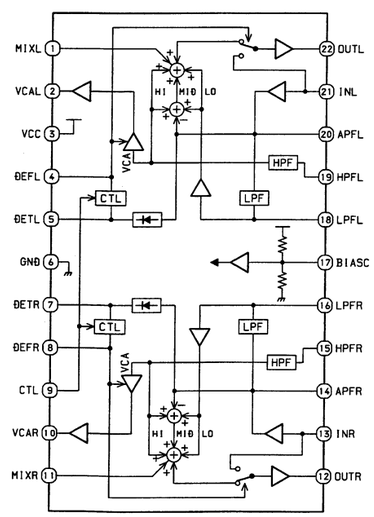
IC, M62445-FP-601



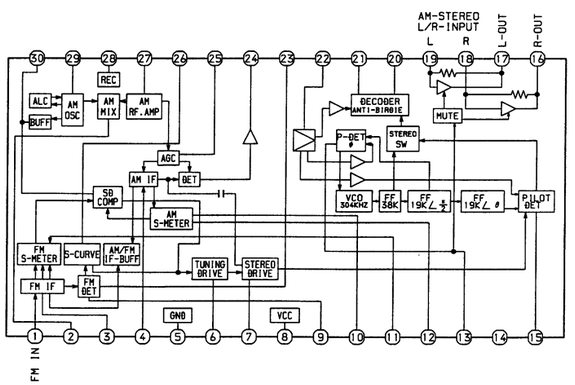
IC, YSS248-F



IC, BA3880S



IC, LA1837



IC DESCRIPTION

IC, μPD780228-016,017,027

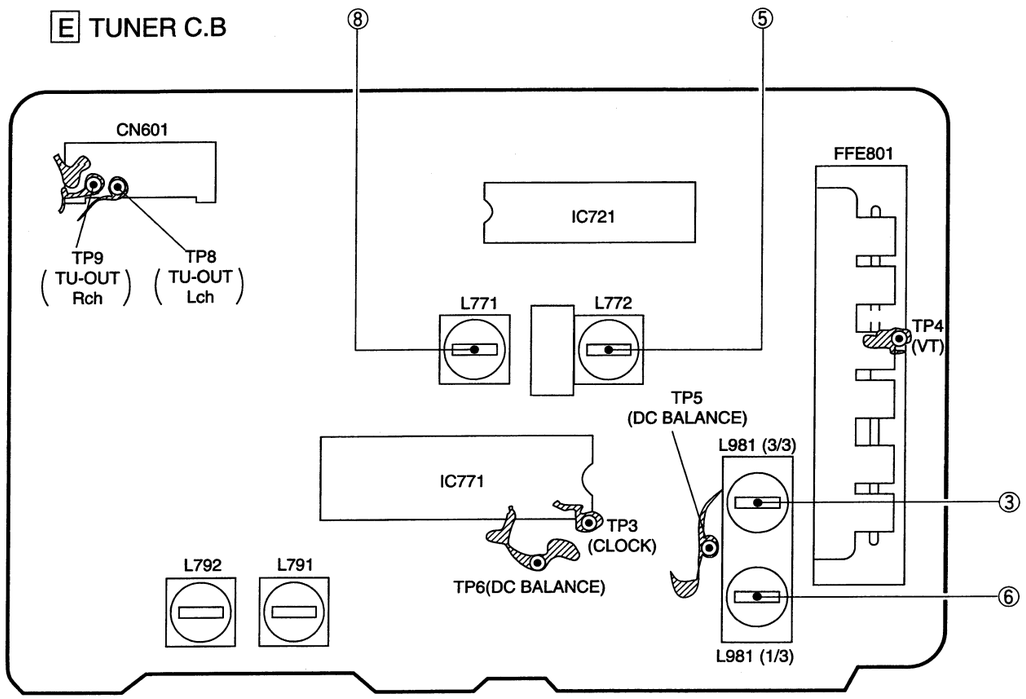
Pin No.	Pin Name	I/O	Description
1	$\overline{\text{K-SCAN}}$	O	Switch scan timing output
2	$\overline{\text{TUNE/IFC}}$	I	TUNE-IF count serial data input
3	PLL-CE	O	PLL IC chip enable output
4	DATA (M)	O	Data output for sound CTRL, PLL, DOLBY PRO LOGIC, DSF
5	CLK (M)	O	Clock output
6	STB (M)	O	Latch strobe output for sound CTRL
7	PRO-CE/DSP-CE	O	Chip enable for dolby prologic or DSP
8	ATT-SW-A	O	ATT-SW-A output for IC720 (4052)
9	ATT-SW-B	O	ATT-SW-B output for IC720 (4052)
10	OSD-CE	O	Chip enable for OSD
11	LED-$\overline{\text{TAPE}}$	O	Tape LED $\overline{\text{ON}}$/OFF output
12	LED-$\overline{\text{TUNER}}$	O	Tuner LED $\overline{\text{ON}}$/OFF output
13	LED-$\overline{\text{PHONO}}$	O	Phono LED $\overline{\text{ON}}$/OFF output
14	LED-$\overline{\text{AUX}}$	O	AUX LED $\overline{\text{ON}}$/OFF output
15	$\overline{\text{POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output
16	MUTE	O	System mute ON/$\overline{\text{OFF}}$ output
17	IC	–	GND
18	VSS	–	GND
19	VDD	–	Power supply input
20	CS	O	Chip select output for DOLBY DIGITAL (AC3)
21	SCK	O	Clock output for DOLBY DIGITAL (AC3)
22	SI	O	Serial data input for DOLBY DIGITAL (AC3)
23	SO	I	Serial data output for DOLBY DIGITAL (AC3)
24	SDA	I	Serial data input for CODEC IC (CS4226)
25	ADO/$\overline{\text{CS}}$	O	Chip select output for CODEC IC (CS4226)
26	$\overline{\text{TAPE-ATTN}}$	O	ATT output for function tape
27	$\overline{\text{DSP-SW}}$	O	DSP SW (4053) output
28	RDS-CLK	I	Tuner RDS clock input
29	RDS-DATA	I	Tuner RDS data input
30	$\overline{\text{RESET}}$	I	Reset input
31	CONT1	O	Master VOL CTRL output for surround left/right
32	CONT2	O	Master VOL CTRL output for center & sub-woofer
33	OSD-CLK (F)	O	Clock output for OSD
34	$\overline{\text{RMC}}$	I	System remote control signal input
35	OSD-DATA (F)	O	Data output for OSD
36	C-SHIFT	O	Micon clock shift output
37	VDD1	–	Power supply input
38	X2	–	4.19 MHz oscillator circuit
39	X1	–	
40	VSS1	–	GND
41	AVDD	–	Power supply input

Pin No.	Pin Name	I/O	Description
42	$\overline{\text{HOLD}}$	I	Power failure detected input "L" to stop clock and hold memory
43	RE-VOL	I	Rotary encoder signal input
44	RDS-SIG	I	Tuner signal input
45	MIC	I	Microphone input for auto VF display
46	KEY3	I	Key input (A/D)
47	KEY2	I	
48	KEY1	I	
49	SYNC DET	I	SYNC detector input for OSD
50	AVSS	–	GND
51	LED CD	O	CD LED ON/$\overline{\text{OFF}}$ output
52	LED-VIDEO1	O	VIDEO1 LED ON/$\overline{\text{OFF}}$ output
53	LED-VIDEO2	O	VIDEO2 LED ON/$\overline{\text{OFF}}$ output
54	LED-VIDEO3	O	VIDEO3 LED ON/$\overline{\text{OFF}}$ output
55	P35	O	FL segement P35 output
56	P34	O	FL segement P34 output
57	P33	O	FL segement P33 output
58	P32	O	FL segement P32 output
59	P31	O	FL segement P31 output
60	P30	I/O	FL segement P30 output/LW mode data input to diode
61	P29	I/O	FL segement P29 output/FMI (OIRT) data input to diode
62	P28	I/O	FL segement P28 output/RDS data input to diode
63	P27	I/O	FL segement P27 output/BBE data input to diode
64	P26	I/O	FL segement P26 output/AM stereo, wide band data input to diode
65	P25	I/O	FL segement P25 output/intial AM 10 kHz step data input to diode
66	P24	I/O	FL segement P24 output/VF, KEY CON, ECHO data input to diode
67	P23	I/O	FL segement P23 output/OSD data input to diode
68	P22	I/O	FL segement P22 output/DOLBY digital (AC3) data input to diode
69	P21	O	FL segement P21 output
70	P20	O	FL segement P20 output
71	P19	O	FL segement P19 output
72	P18	O	FL segement P18 output
73	P17	O	FL segement P17 output
74	P16	I/O	FL segement P16 output/tuner stereo detected input
75	P15	I/O	FL segement P15 output/headphone mute detected input
76	P14	I/O	FL segement P14 output/reference clock input for timer watch
77	P13	O	FL segement P13 output
78	P12	O	FL segement P12 output
79	VDD2	–	Power supply input
80	VFL	–	Power supply input for FL display
81	P11	O	FL segement P11 output
82	P10	O	FL segement P10 output

Pin No.	Pin Name	I/O	Description
83	P9	O	FL segement P9 output
84	P8	O	FL segement P8 output
85	P7	O	FL segement P7 output
86	P6	O	FL segement P6 output
87	P5	O	FL segement P5 output
88	P4	O	FL segement P4 output
89	P3	O	FL segement P3 output
90	P2	O	FL segement P2 output
91	P1	O	FL segement P1 output
92	G9	O	FL grid output G9
93	G8	O	FL grid output G8
94	G7	O	FL grid output G7
95	G6	O	FL grid output G6
96	G5	O	FL grid output G5
97	G4	O	FL grid output G4
98	G3	O	FL grid output G3
99	G2	O	FL grid output G2
100	G1	O	FL grid output G1

IC, LC74763M-9670

Pin No.	Pin Name	I/O	Description
1	VSS	–	Connected to ground
2	Xtal IN1	I	For the connection of a crystal and capacitors comprising a crystal oscillator that generates internal sync signal. The crystal oscillator is selected by command.
3	Xtal OUT1	O	
4	HSYNCOUT	O	Outputs horizontal sync signal. (AFC) The output polarity can be selected (Metal option). Or, general-purpose port output (switched by command).
5	Xtal IN2	I	For the connection of a crystal and capacitors comprising a crystal oscillator that generates internal sync signal.
6	Xtal OUT2	O	
7	VSYNCOUT	O	Outputs vertical sync signal.The output polarity can be selected (Metal option). Or, general-purpose port output (switched by command).
8	$\overline{CS}$	I	Enable input for serial data input. "L" input enables serial data input (hysteresis input). A pull-up resistor is incorporated (Metal option).
9	SIN	I	Serial data input (hysteresis input). A pull-up resistor is incorporated (Metal option).
10	SCLK	I	Clock input for serial data input (hysteresis input). A pull-up resistor is incorporated (Metal option).
11	SECAM	I/O	nput: Switches the SECAM mode. "L": Modes other than SECAM, "H": SECAM Output: General-purpose port output or internal V output (switched by command).
12	$\overline{525}$/625	I/O	Input: Switches the number scanning lines between 525 and 625. "L": 525, "H": 625 Output: General-purpose port output or character data output (switched by command).
13	$\overline{NTSC}$/PAL	I/O	Input: Switches the color system between NTSC and PAL. "L": NTSC, "H": PAL Output: General-purpose port output or decorating data output (switched by command).
14	$\overline{3.58}$/4.43	I/O	Input: Switches FSC between 3.58MHz and 4.43MHz. "L": 3.58, "H": 4.43 Output: General-purpose port output or half-tone output (switched by command).
15	$\overline{RST}$	I	System reset input. Active "L". (Hysteresis input) A pull-up resistor is incorporated (Metal option).
16	CV OUT	O	Composite video signal output
17	VDD2	–	Power supply for creating composite video level
18	CVIN	I	Composite video signal input
19	CVCR	I	SECAM chroma signal input
20	SYNC IN	I	Video signal input to the built-in sync separator
21	SEPC	O	Bias output from the built-in sync separator
22	VSS	–	Connected to ground.
23	PD OUT	O	AFC control voltage output
24	AMP IN	I	For the connection of a filter for AFC circuit
25	AMP OUT	O	
26	FC	I	AFC control voltage input
27	VCO IN	I	For the connection of coils and capacitors comprising an LC oscillator for VCO
28	VCO OUT	O	
29	SYNC DET	O	EX-NOR output of horizontal sync signal (AFC) and C.SYNC (sync separator). The output polarity can be selected (Metal option). Or, general-purpose port output (switched by command).
30	VDD1	–	+5V Power supply of digital circuits



1. AM VT Check
   Setting:
   Test point: TP4 (VT)
   Method:
   Set to AM 1710 kHz and check that the test point is less than + 8.5 V.
   Then set to AM 530 kHz and check that the test point is more than + 0.6 V.

2. FM VT Check
   Setting
   Test point: TP4 (VT)
   Method
   Set to FM 108.0 MHz and check that the test point is less than + 8.0 V.
   Then set to FM 87.5 MHz and check that the test point is more than + 0.5 V.

3. AM VT Adjustment
   Setting:
   Test point: TP4 (VT)
   Adjustment location: L981 (3/3)
   Method:
   Set to AM 1710 kHz and adjust L981 (3/3) that the test point is 8.5 ± 0.05 V .
   Then set to AM 530 kHz and check that the test point is more than + 0.3 V.

4. Clock Frequency Check
   Setting:
   Test point: TP3 (CLOCK)
   Method:
   Set to AM 1710 kHz and check that the test point is 2160 kHz ± 45 kHz .

5. AM IF Adjustment
   Setting:
   Test point: TP8 (Lch), TP9 (Rch),
   Adjustment location: L772
   Method:
   Set to AM 999 kHz and adjust L772 that the test point is becomes maximum .

6. AM Tracking Adjustment
   Setting:
   Test point: TP8 (Lch), TP9 (Rch),
   Adjustment location: L981 (1/3)
   Method:
   Set to AM 999 kHz and adjust L981 (1/3) that the test point is becomes maximum .

7. FM Tracking Check
   Setting:
   Test point: TP8 (Lch), TP9 (Rch),
   Method:
   Set to FM 98.0 MHz and check that the test point is less than 9 dBμV.

8. FM DC Balance Adjustment
   Setting:
   Test point: TP5, TP6
   Adjustment location: L771
   Method:
   Set to FM 98.0 MHz and adjust L771 that the test point is 0 ± 0.04 V.

PRACTICAL SERVICE FIGURE

TUNER SECTION

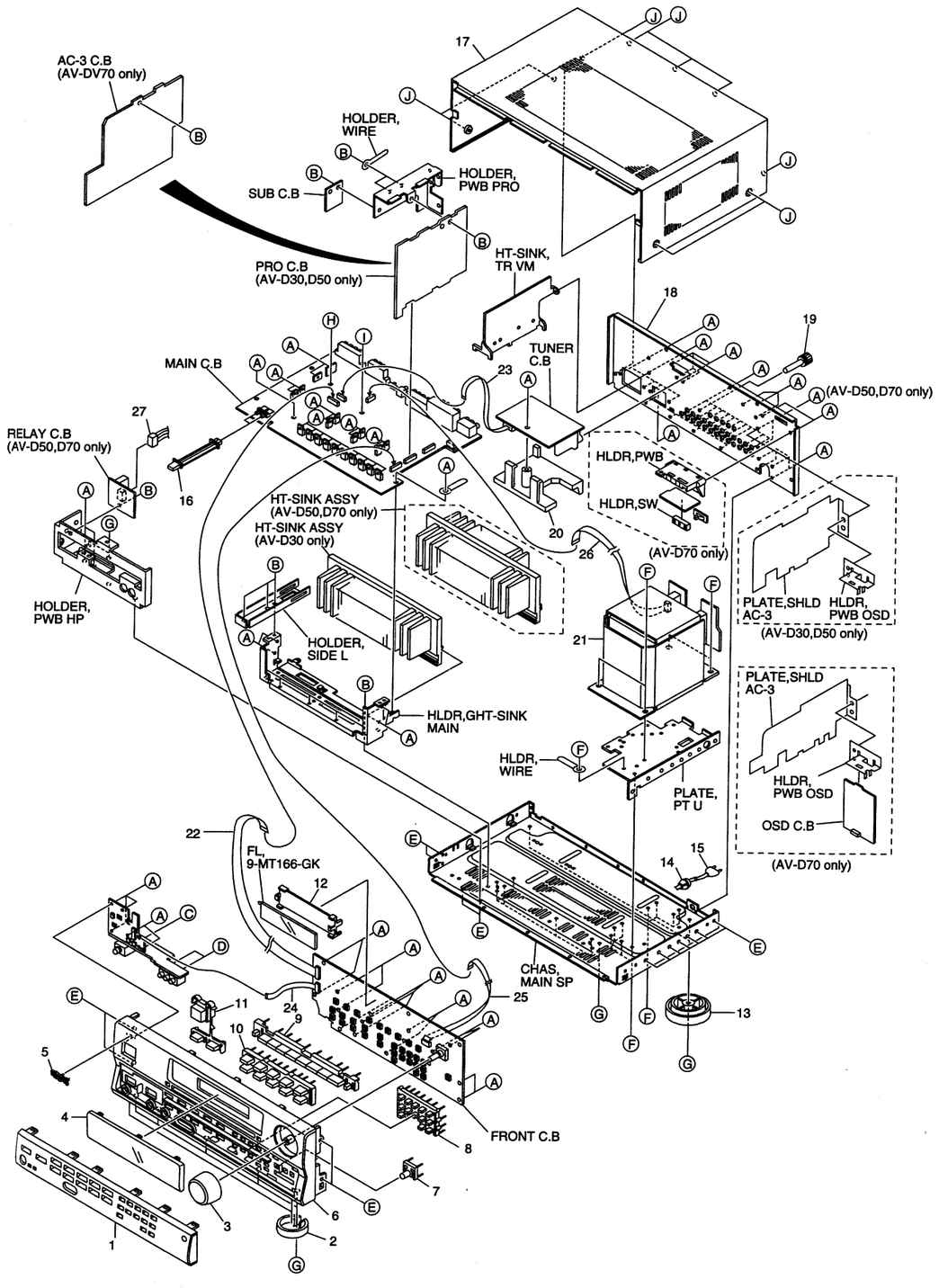
< FM SECTION >

IHF sensitivity: (THD 3 %)	Less than 10 dBμV (87.5 MHz)
	Less than 9 dBμV (98.0 MHz/108 MHz)
S/N 50 dB quieting sensitivity:	Less than 35 dBμV (98.0 MHz)
Signal to noise ratio:	More than 66 dB (98.0 MHz)
Distortion:	Less than 2.0% (98.0 MHz)
Stereo separation:	More than 30 dB (98.0 MHz)
Intermediate frequency:	10.7 MHz

< AM SECTION >

Sensitivity: (S/N 20 dB)	Less than 60 dBμV (600 kHz)
	Less than 58 dBμV (1000/1400 kHz)
Distortion:	Less than 1.5% (1000 kHz)
Auto stop level:	37 dB ~ 62 dB (1000 kHz)
Intermediate frequency:	450 kHz

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-AR3-009-010		PANEL,CTRL BLK<D30>
1	88-AR2-012-010		PANEL,CTRL BLK<D50>
1	88-AR1-015-010		PANEL,CTRL BLK<DV70>
2	88-AR1-044-010		RING,FOOT BLK
3	88-AR1-045-010		KNOB,RTRY VOL BLK
4	88-AR1-021-010		WINDOW,DISP DIGITAL<DV70>
4	88-AR1-014-010		WINDOW,DISPLAY<D30,D50>
5	82-NE6-067-010		BADGE,AIWA 30N
6	88-AR1-001-010		CABI,FR U BLK
7	88-AR1-042-010		KEY,BALANCE BLK
8	88-AR1-039-010		KEY,10 BLK<D50,DV70>
8	88-AR3-026-010		KEY,10 BLK<D30>
9	88-AR2-007-010		KEY,FUN 5.1CH BLK<D30,D50>
9	88-AR1-037-010		KEY,FUN BLK<DV70>
10	88-AR3-025-010		KEY,GEQ BLK<D30>
10	88-AR1-038-010		KEY,GEQ BLK<D50,DV70>
11	88-AR3-028-010		KEY,POWER BLK<D30>
11	88-AR1-036-010		KEY,POWER BLK<D50,DV70>
12	88-AR1-209-010		GUIDE,FL
13	82-AA1-029-010		FOOT,(SG)<D50,DV70>
13	88-AR3-013-010		FOOT,REAR<D30>
14	87-085-189-010		BUSHING, CORD (U)
⚠ 15	87-050-053-010		AC CORD ASSY,U-2
16	88-AR1-043-010		BTN,SP BLK
17	88-AR1-003-010		CABI,STEEL BLK 0.72<D30,D50>
17	88-AR1-035-010		CABI,STEEL BLK 0.92<DV70>
18	88-AR3-023-010		PANEL,REAR UBN<D30>
18	88-AR2-003-010		PANEL,REAR UBNM<D50>
18	88-AR1-002-110		PANEL,REAR UBNM<DV70>
19	87-033-209-010		TERMINAL, EARTH
20	88-AR1-203-010		HLDR,TU
⚠ 21	88-AR1-650-010		PT,8AR-1 (U)<D50,DV70>
⚠ 21	88-AR3-601-010		PT,8AR-3 (U)<D30>
22	88-AR1-644-010		FF-CABLE, 27P 1.25 400MM
23	88-911-161-110		FF-CABLE,11P 1.25
24	88-912-061-110		FF-CABLE, 12P 1.25
25	88-AR1-647-010		FF-CABLE,12P 1.25 340MM<DV70>
26	88-AR1-642-010		F-CABLE,9P -2.5
27	88-AR1-659-010		CONN ASSY,6P(RY)<D50>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-584-010		TAPPING SCREW, BVT2+3-6
C	81-MK1-210-010		S-SCREW,VFT2+3-16
D	88-AR1-217-010		S-SCREW,BFT2+3-8
E	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
F	87-067-975-010		S-SCREW,IT+4-8
G	87-067-673-010		TAPPING SCREW, BUTT+3-8 (B)
H	87-067-632-010		TAPPING SCREW, BVT2+3-15
I	87-067-581-010		TAPPING SCREW, BVT2+3-15
J	87-067-641-010		UTT2+3-8(W/O SLOT)BL

ACCESSORIES LIST〔AV-D30〕

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-AR3-903-010		IB,U(ESF)M				
2	87-006-225-010		AM LOOP ANT NC2				
3	87-043-115-010		ANT,FEEDER FM				
4	88-AR2-654-010		RC UNIT,RC-8AR03				

ACCESSORIES LIST〔AV-D50〕

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-AR2-903-010		IB,U(ESF)M				
2	87-006-225-010		AM LOOP ANT NC2				
3	87-043-115-010		ANT,FEEDER FM				
4	88-AR1-654-010		RC UNIT,RC-8AR01				

ACCESSORIES LIST〔AV-DV70〕

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	88-AR1-903-010		IB,U(ESF)M				
2	88-AR1-654-010		RC UNIT,RC-8AR01				
3	87-006-225-010		AM LOOP ANT NC2				
4	87-043-115-010		ANT,FEEDER FM				

サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

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